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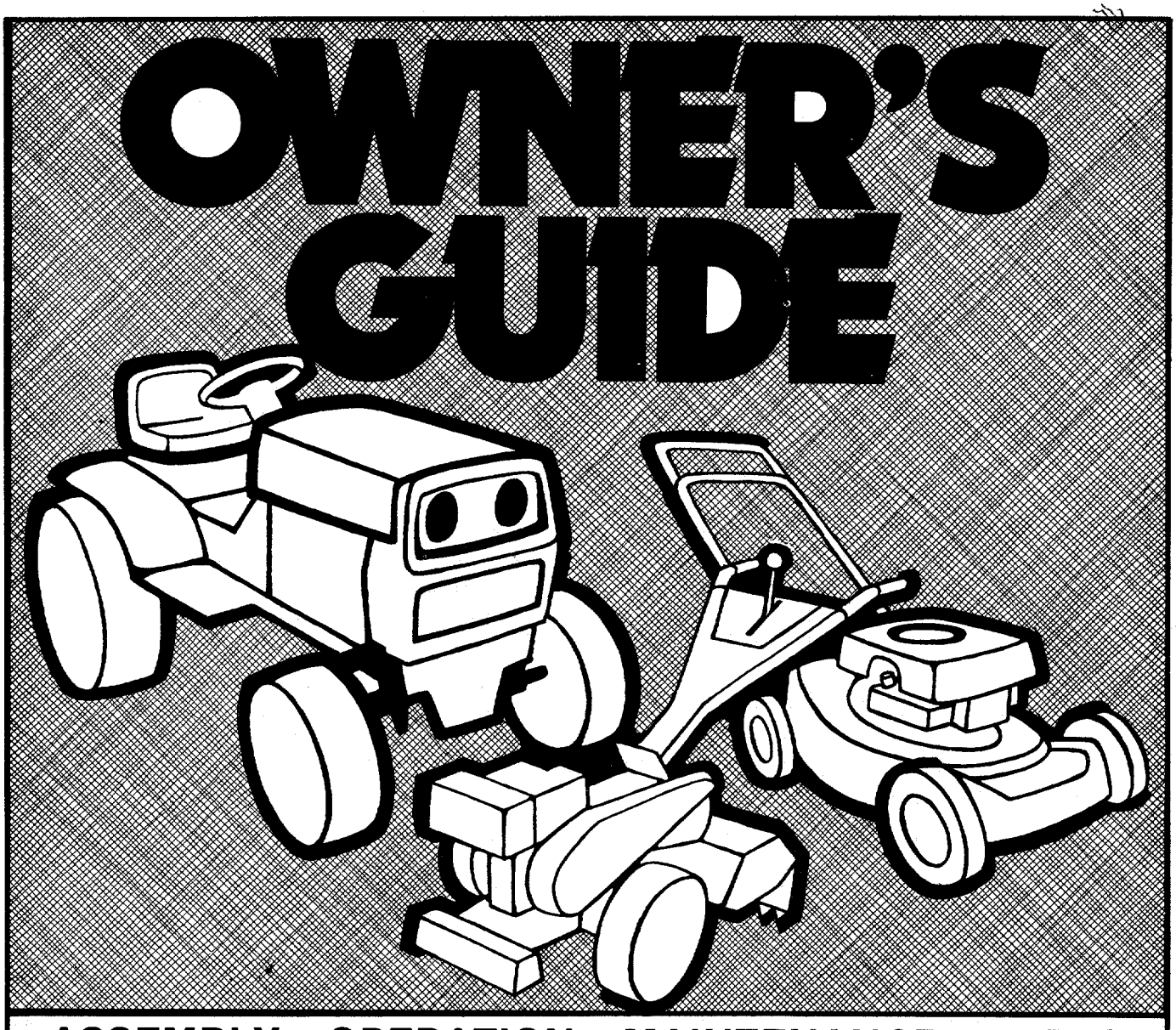
OWNER'S GUIDE



ASSEMBLY • OPERATION • MAINTENANCE • PARTS

38″ LAWN TRACTOR

Important:

Read Safety Rules and Instructions Carefully

Thank you for purchasing an American built product.

Model Number 131-498A

PRINTED IN U.S.A.

FORM NO. 770-0863

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LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING

TO PURCHASERS
OF INTERNAL COMBUSTION ENGINE EQUIPPED
MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.

WARNING

To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. It is suggested that this manual be read in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future reference and for ordering replacement parts.
2. This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
3. Know the controls and how to stop quickly—READ THIS OWNER'S MANUAL.
4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. Do not carry passengers.
6. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidently thrown by the mower in any direction and cause injury.
7. Clear work area of objects which might be picked up and thrown by the mower in any direction and cause injury.
8. Stop the blade(s) when crossing gravel drives, walks or roads.
9. Disengage all attachment clutches and shift into neutral before attempting to start engine.
10. Disengage power to attachment(s) and stop engine before leaving operating position.
11. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
12. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
13. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
14. Disengage power to attachment(s) when transporting or not in use.
15. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
16. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
17. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
18. Stay alert for holes in terrain and other hidden hazards.
19. Use care when pulling loads or using heavy equipment.
    A. Use only approved drawbar hitch points.
    B. Limit loads to those you can safely control.
    C. Do not turn sharply. Use care when backing.
    D. Use counterweight(s) or wheel weights when suggested in owner's manual.
20. Watch out for traffic when crossing or near roadways.
21. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
22. Handle gasoline with care. It is highly flammable.
    A. Use approved gasoline container.
    B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
    C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.
23. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
24. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
25. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
26. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
27. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
28. Do not change the engine governor settings or overspeed the engine.
29. When using the vehicle with mower, proceed as follows:
    (1) Mow only in daylight or in good artificial light.
    (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
    (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
    (4) Check blade mounting bolts for proper tightness at frequent intervals.
30. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
31. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up.

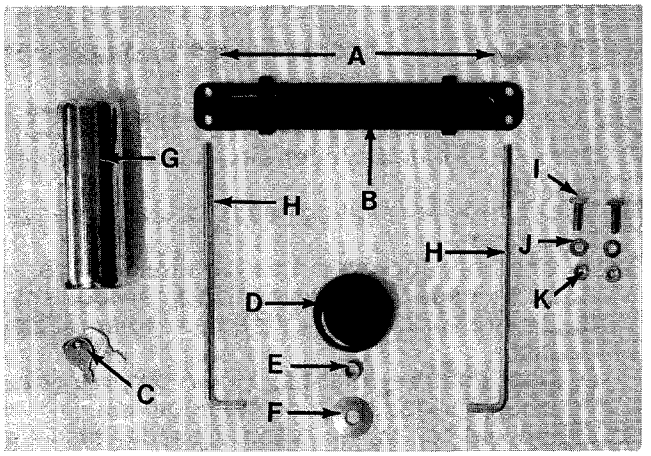


FIGURE 1.

ASSEMBLY

NOTE

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and engine oil recommendations.

Contents of Hardware Pack: (See figure 1)

A (2) Plastic Wing Nuts
B (1) Battery Hold Down
C (2) Ignition Keys
D (1) Steering Wheel Cap
E (1) Hex Lock Nut 5/16-24 Thread
F (1) Belleville Washer
G (1) Steering Tube
H (2) Battery Hold Down Rods
I (2) Hex Bolts ¼-20 x .50" Lg.
J (2) Lock Washers ¼" I.D.
K (2) Hex Nuts ¼-20 Thread

Loose Parts in Carton:

L (1) Steering Wheel (Not Shown)
M (1) Battery Pack (Not Shown)

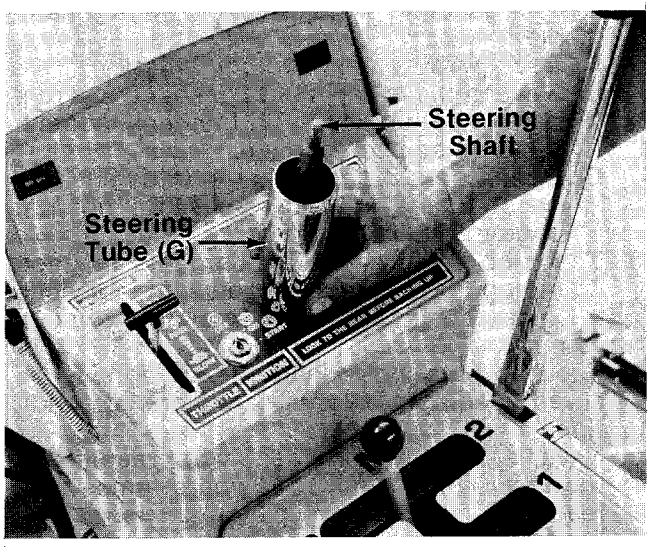


FIGURE 2.

NOTE

Reference to right hand or left hand side of machine is from the driver's seat facing forward.

1. Place the steering tube (G) over the steering shaft. See figure 2.

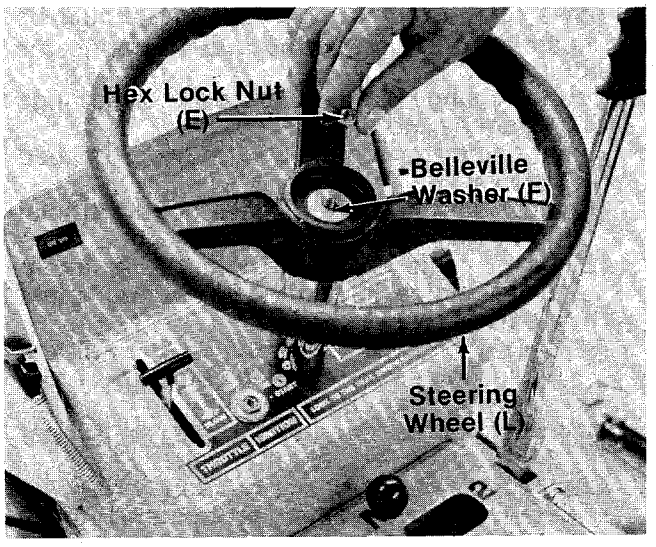


FIGURE 3.

2. Place the steering wheel (H) over steering shaft and steering tube. See figure 3.
3. Secure steering wheel (L) with belleville washer (F) (cup side down) and hex lock nut (E). See figure 3. A ½" wrench is required.

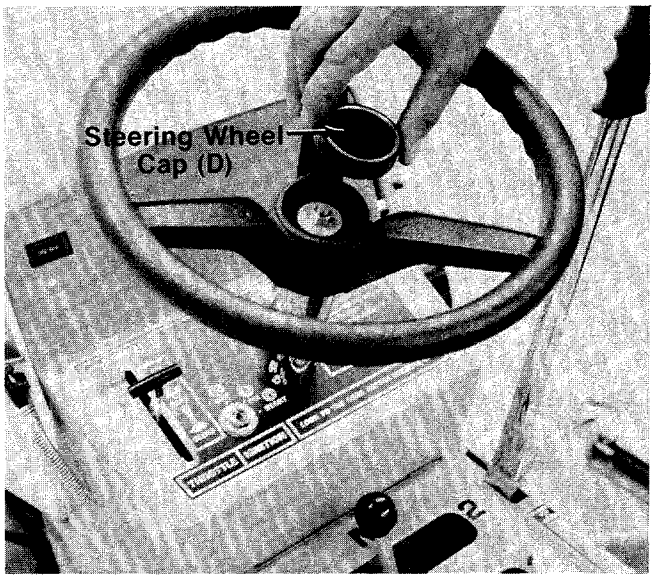


FIGURE 4.

4. Place steering wheel cap (D) in position on steering wheel and press down firmly. See figure 4.

NOTE

Check ALL nuts and bolts for correct tightness.

BATTERY INFORMATION

WARNING

A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.

B. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues.

C. If acid gets on clothes, dilute it with clean water first, then neutralize with dilute ammonia water or a water solution of baking soda.

D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.

DANGER

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added).

A. Keep sparks, flame, cigarettes away.

B. Hydrogen gas is generated during charging and discharging.

C. Ventilate when charging or using in enclosed space.

D. When using a charger—to avoid sparks, NEVER connect or disconnect charger clips to battery while charger is turned on.

E. Always shield eyes and protect skin and clothing when working near batteries.

ACTIVATING THE BATTERY

NOTE

If your battery is activated (electrolyte in the battery) and installed in the unit, go directly to step 9.

1. Place the battery to be filled on a workbench. Never activate a battery in the unit.
2. Remove the fill caps from all cells.
3. Fill each cell carefully using 1.265 specific gravity electrolyte. Fill each cell to the top of the separators. Do not overfill.
4. Let the battery sit for 20 minutes to allow the chemical reaction to take place.
5. Charge the battery at a MAXIMUM RATE OF 5 AMPS until the specific gravity reads 1.265. Use a hydrometer to check the specific gravity.

CAUTION

An excessive rate of charge will damage the battery.

6. Check the level of electrolyte. Adjust level to bottom of split ring if necessary with electrolyte.
7. Replace fill caps.

8. Once the battery has been activated, never add anything except distilled water or a good grade of drinking water.
9. If your battery has been installed in your unit at the factory:
   A. Use a hydrometer to check the specific gravity. The specific gravity should be 1.265 at 80° F.
   B. If it is less, remove the fill caps and use a battery charger to bring the specific gravity up to 1.265. NEVER CHARGE AT MORE THAN 5 AMPS.
   C. Replace the fill caps.
   D. The positive cable has been attached to the positive terminal of the battery at the factory. You only have to attach the negative cable (grounded) to the negative (Neg, N or −) terminal of the battery with a hex head bolt, lock washer and nut.

MAINTENANCE OF BATTERY

1. Check electrolyte level periodically (at least every two weeks). Keep the level to the split rings. Use only distilled water or a good quality drinking water. Never add acid or any other chemicals to the battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, the battery should be recharged. Maximum charge rate 5 AMPS.
3. Coat the terminals and exposed wire with a thin coat of grease or petroleum jelly for longer service and protection against corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.
5. Avoid tipping the battery. Even a "sealed" battery will leak electrolyte when tipped.

STORAGE OF THE BATTERY

1. Store the battery in the unit.
2. Keep the exterior of the battery clean, especially the top. A dirty battery will discharge itself.
3. Check the battery with a hydrometer. The battery must be stored with a full charge. A discharged battery will freeze.

Specific Gravity	Freezing Point
1.265	-71° F.
1.250	-62° F.
1.200	-16° F.
1.150	5° F.
1.100	16° F.

CAUTION

All batteries discharge during storage.

4. Recharge battery whenever the specific gravity is less than 1.225, before returning to service or every two months, whichever comes first.

COMMON CAUSES FOR BATTERY FAILURE

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte

NOTE

These failures do not constitute warranty.

BATTERY REMOVAL OR INSTALLATION

WARNING

When removing the battery, follow this order of disassembly to prevent your wrench from shorting against the frame.

1. Remove the Negative cable.
2. Remove the Positive cable.

To install a battery:

1. Attach the Positive cable.
2. Attach the Negative cable.

JUMP STARTING

1. Attach the first jumper cable from the Positive terminal of the good battery to the Positive terminal of the dead battery.
2. Attach the second jumper cable from the Negative terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.

WARNING

Failure to use this starting procedure could cause sparking, and the gases in either battery could explode.

INSTALL BATTERY

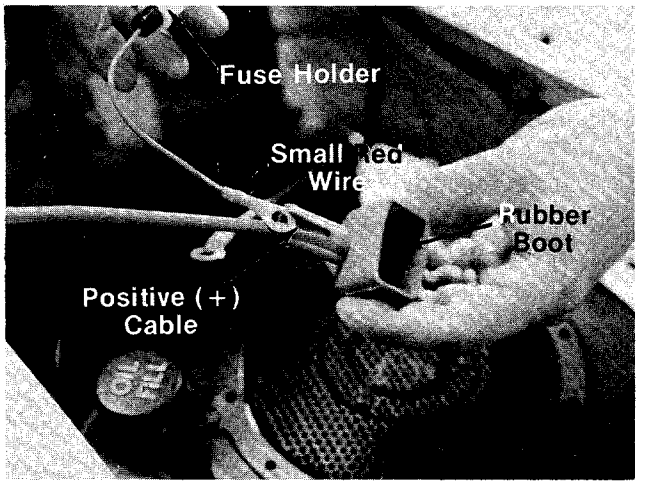


FIGURE 5.

1. Place end of small red wire (with fuse holder) into rubber boot with positive (+) cable. See figure 5.

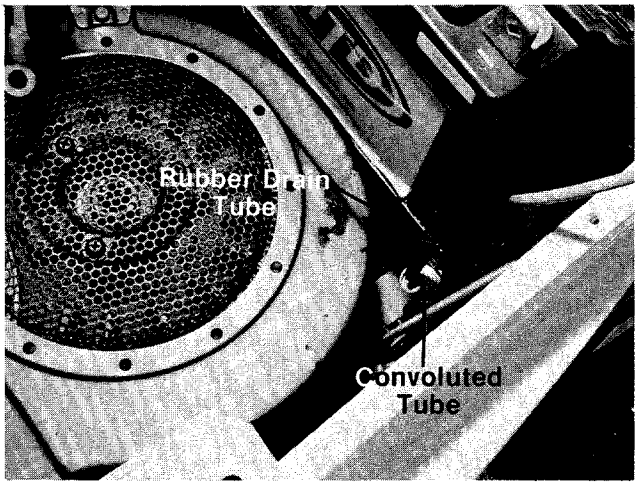


FIGURE 6.

2. Place the battery into the lawn tractor, so that the negative (−) terminal on battery is to the left hand side. See figure 6.
3. Place the end of rubber drain tube (on battery) into the fixed convoluted tube on lawn tractor. See figure 6. Reference to illustration on bottom of page 32 may also help.

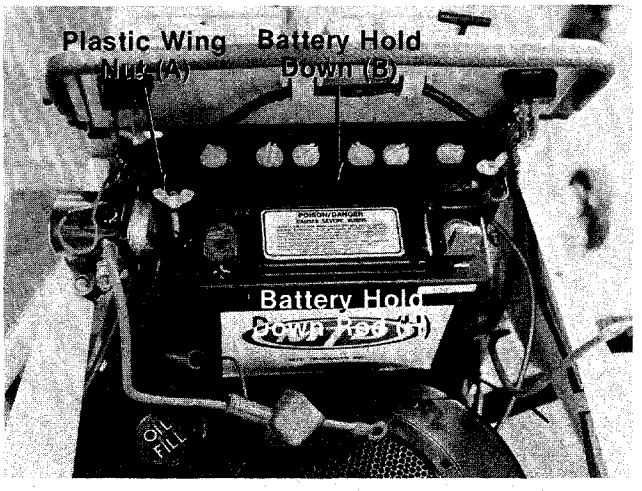


FIGURE 7.

4. Place the battery hold down (B) over battery. See figure 7.
5. Secure battery hold down (B) with two hold down rods (H) and plastic wing nuts (A). See figure 7.

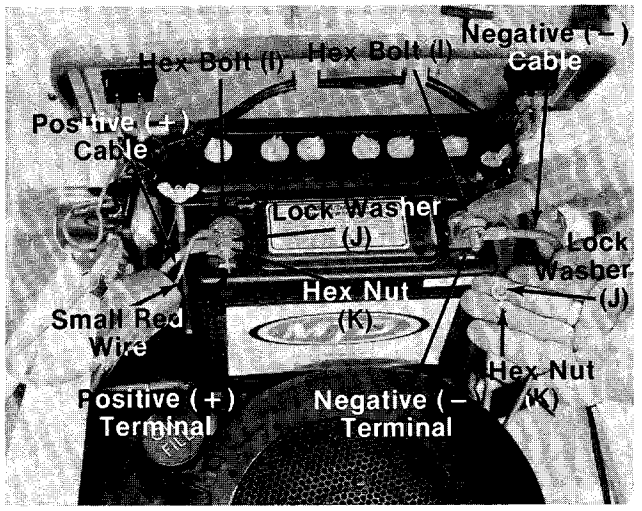


FIGURE 8.

6. Fasten the positive (+) cable and small red wire (with fuse holder) to the positive (+) battery terminal. Secure with hex bolt (I), lock washer (J) and hex nut (K). See figure 8.
7. Fasten the negative (–) cable to the negative (–) battery terminal. Secure with hex bolt (I), lock washer (J) and hex nut (K). See figure 8.

NOTE

Be sure both cables are tightened securely.

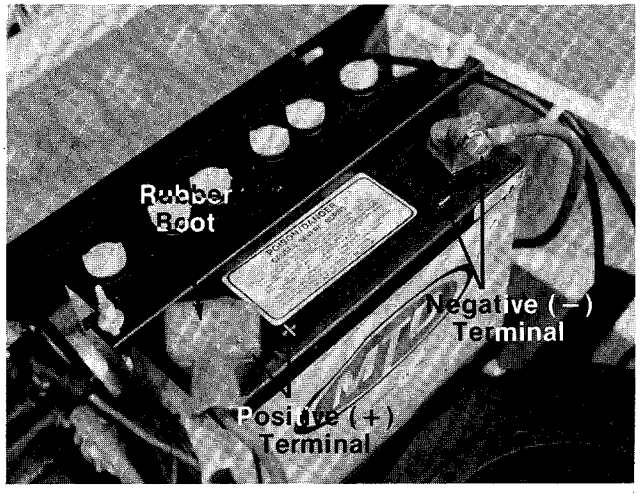


FIGURE 9.

8. Slide the rubber boot on the positive (+) cable down cable over positive (+) battery terminal. See figure 9.

CONTROLS

a. **Throttle Control.** The throttle control is used to regulate the engine speed and choke the engine. The engine should be operated from ¾ to full throttle when operating the cutting deck or snow thrower (optional). See figure 10.

b. **Gear Shift Lever.** The gear shift lever is used to shift into one of five Forward Gears, "NEUTRAL" or "REVERSE."

c. **Lift and Disengagement Lever.** It is used to raise the cutting deck. Pulling it all the way back and locking it disengages the blades. The engine will not start unless the lift and disengagement lever is in the disengaged position. See figure 10.

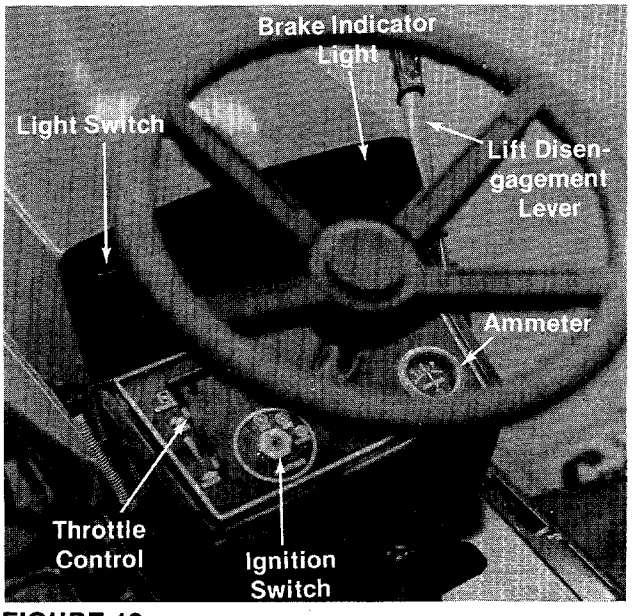


FIGURE 10.

d. **Ignition Switch.** The ignition switch is located on the left side of the dashboard. See figure 10. Turn the key to the "START" position to start the engine. When the engine is running, let the key return to the "ON" position. To stop the engine, turn the key to the left to the "OFF" position and remove it to prevent accidental starting.

e. **Light Switch.** Push the light switch in to turn on the lights. The lights will only operate when the engine is running. See figure 10.

f. **Brake Indicator Light.** The brake indicator light is located on the dash panel. The brake light turns on when the operator depresses the brake pedal while the ignition is on.

CAUTION

This light indicates that the brake is engaged. Operating the unit with the brake engaged will result in rapid brake wear and premature brake failure.

g. **Ammeter.** The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus side (approximately 3 amps) when the engine is running. With the engine idling, the charging rate will be less. See figure 10.

The headlights operate directly from the alternator and will not register on the ammeter.

h. **Brake.** The brake pedal is located on the right hand side of the mower and is operated by depressing it with your right foot. See figure 11.

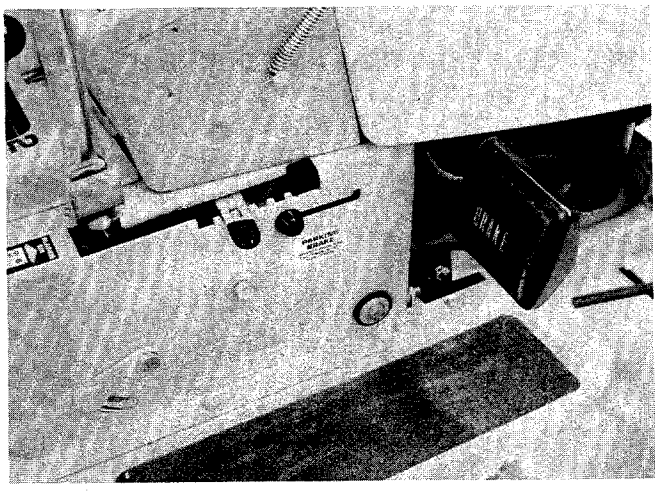


FIGURE 11.

i. **Brake Lock.** The brake lock is located on the right hand side of the mower. To lock the brake, depress the brake pedal and lift up the lock button. The pedal will stay depressed. To release, depress the pedal. See figure 12.

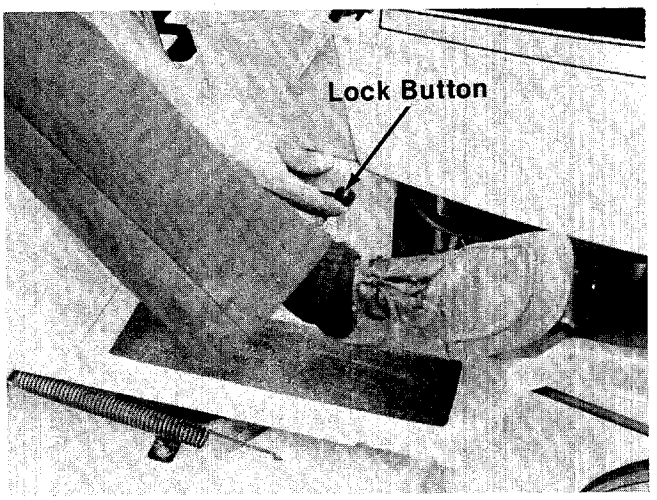


FIGURE 12.

j. **Clutch Pedal.** The clutch pedal is used to disengage the drive mechanism. Depressing the clutch pedal at any time will reduce mower speed. See figure 13.

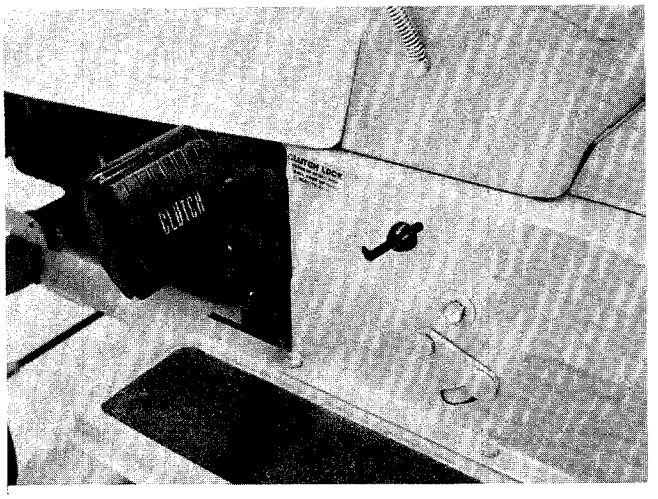


FIGURE 13.

k. **Clutch Lockout.** When the clutch pedal is depressed all the way, it can be locked by placing the clutch lockout in the "START" position as shown in figure 14. The clutch lockout must be in this position before the engine will start.

NOTE

The engine will not start unless the clutch lockout is in the "START" position and the lift lever is in the DISENGAGED position.

FIGURE 14.

I. **Cutting Controls.** The cutting controls consist of the height of cut stop and the wheel height adjusters.

Height of Cut Stop. See figure 15. Lift the stop and set it at the desired cutting height.

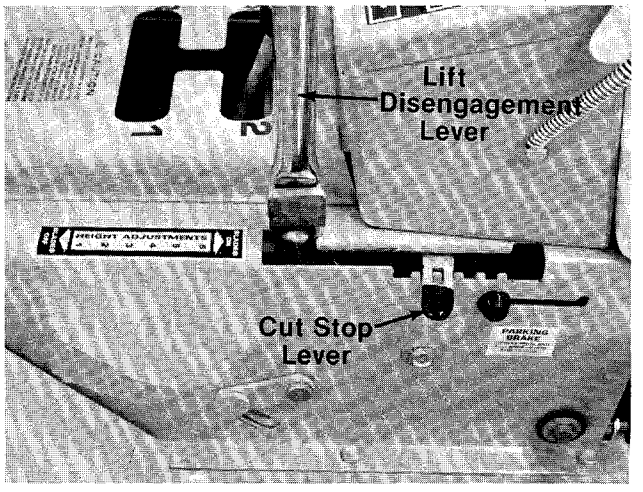


FIGURE 15.

Wheel Height Adjuster. See figure 16. Move the lever towards the wheel and set it in the desired cutting height.

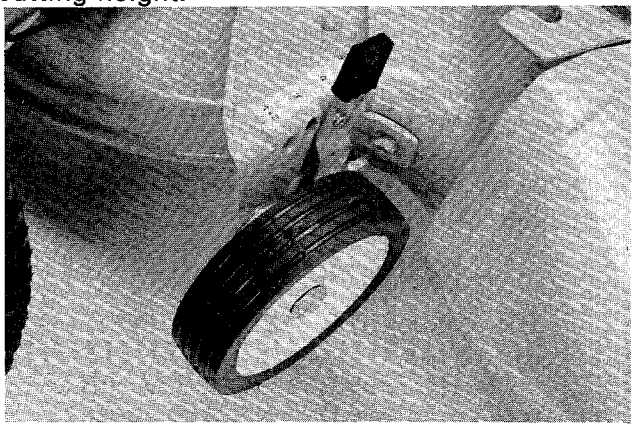


FIGURE 16.

The cutting height of the mower can be set in two different ways: FULL FLOAT position where the deck follows the contour of the ground, and the SUSPENDED position where the deck hangs from the frame of the rider. The suspended position is normally used for cutting rough uneven ground.

To set the cutting deck in the full float position, set the wheel height adjusters in the desired cutting height as indicated in figure 15. Set height of cut stop all the way forward. See figure 15.

To set the cutting deck in the suspended position, set the height of cut stop in the desired cutting height and then set the deck wheels so they just clear the ground.

OPERATION

CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
   a. Shift transmission to neutral
   b. Set parking brake
   c. Disengage attachment clutch
   d. Shut off engine
   e. Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.
5. Look to the rear before backing up.

TIRE PRESSURE

FOR SHIPPING PURPOSES, THE TIRES ON YOUR UNIT MAY BE OVER-INFLATED. TIRE PRESSURE SHOULD BE REDUCED BEFORE UNIT IS PUT INTO OPERATION. PRESSURE SHOULD BE APPROXIMATELY 15 P.S.I. EQUAL TIRE PRESSURE SHOULD BE MAINTAINED ON ALL TIRES. MAXIMUM TIRE PRESSURE IS 30 P.S.I.

CAUTION

Installation of tire to rim:

1. Lubricate tire beads and rim flanges.
2. Do not exceed 30 P.S.I. when seating beads.
3. Adjust to recommended pressure after beads are sealed.

STARTING THE ENGINE

1. Be sure to follow the instructions for the oil and gasoline as described in the engine manual.
2. Be sure the fuel shuft-off valve is open (must be turned counterclockwise). See figure 17.

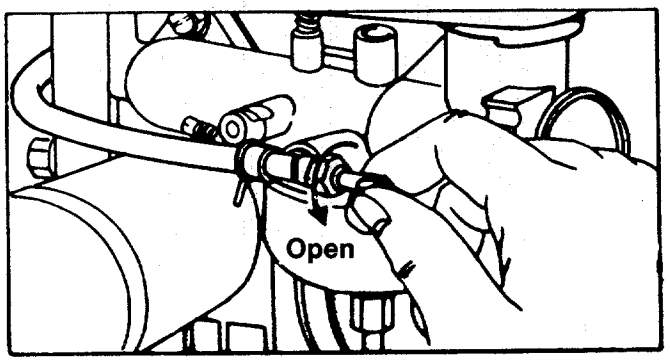


FIGURE 17. FUEL SHUT-OFF VALVE

3. Set parking brake and place shift lever in neutral position.
4. Place the clutch lockout in the "START" position. See figure 14.
5. Place the lift and disengagement lever in the DISENGAGED position. See figure 10.

NOTE

This unit is equipped with a safety interlock system for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch pedal is depressed and the lift and disengagement lever is in the disengaged position.

WARNING

Do not operate the rider if the interlock system is malfunctioning because it is a safety device, designed for protection.

6. Set the throttle control in the "CHOKE" position. See figure 10.
7. Turn the ignition key to the "START" position. When the engine is running, let the key return to the "ON" position. See figure 10.

STOPPING THE ENGINE

Turn the ignition key to the left to the "OFF" position. Remove the key to prevent accidental starting.

NOTE

A brief break-in period is essential to ensure maximum engine and mower life. This consists of running the engine at half speed for a period of time required to use one tank of gasoline. It is also recommended to change crankcase oil after the first 2 hours of operation.

IMPORTANT

After striking a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

OPERATING THE MOWER

1. Set the desired cutting height.
2. Start the engine.
3. Release parking brake.

CAUTION

Parking brake MUST be disengaged before unit is put into motion.

4. Move throttle control to desired engine speed.
5. Depress the clutch pedal and shift into first gear or reverse.

NOTE

DO NOT force the gear shift lever!

6. Release clutch pedal slowly to put unit into motion.
7. Depress the clutch pedal when shifting gears.
8. The mower is brought to a stop by depressing the brake and clutch pedals. The drive belt will be disengaged and the brake will be applied.

NOTE

Unit is equipped with separate brake and clutch pedals. It is necessary to disengage clutch when applying brakes to stop.

CAUTION

If the mower is not to be used for a long period, place the gear shift lever in NEUTRAL and stop the engine. DO NOT leave the machine on an incline.

OPERATING THE CUTTER BLADE

The cutting blades may be engaged while the mower is moving or standing still. DO NOT engage the cutting blades abruptly as the sudden belt tension on the pulley may cause the engine to stall.

WARNING

When the blade drive is engaged, keep feet and hands away from the discharge opening and from the blade.

To stop the blades, move the lift and disengagement lever (figure 14) into the DISENGAGED position. This raises the deck and disengages the blades.

NOTE

When the machine is used for other than mowing operations, the blade drive should be disengaged.

GRASS CATCHER Model No. 191-015A is available as optional equipment for the mower shown in this manual.

WARNING

The mower should not be operated without the entire grass catcher or chute deflector in place.

NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0121.

ADJUSTMENTS

SEAT ADJUSTMENT

Your seat may be adjusted in one of four hole locations. Remove hex bolts and lock washers from under seat spring.

After desired seat location is selected, secure seat to seat spring with lock washers and hex bolts. A 3/4" or adjustable wrench is required. See figure 18.

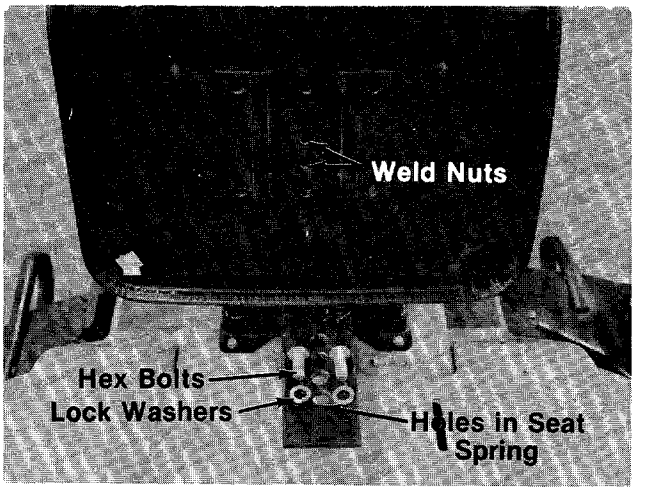


FIGURE 18.

BRAKE ADJUSTMENT

During normal operation of this machine, the brake is subject to wear and will require periodic examination and adjustment.

CAUTION

Do not have the engine running when you adjust the brakes.

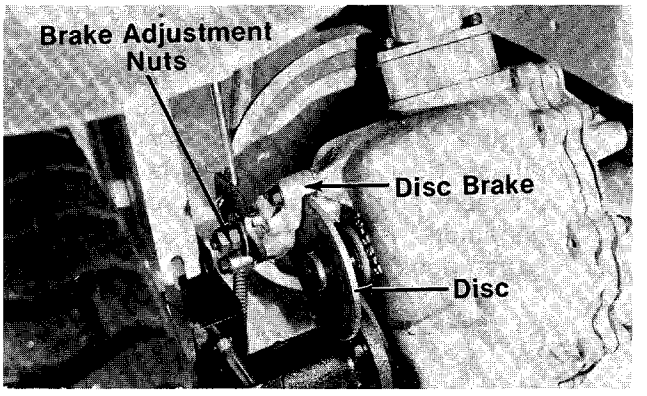


FIGURE 19.

1. Move the brake pedal forward by hand until resistance is noted. This is the point where the brake pedal spring begins to stretch.
2. If the adjustment is correct, the brake lock should move ¼ inch. See figure 19.
3. If adjustment is necessary, tighten or loosen the brake adjusting nuts until the correct dimension is obtained. See figure 20. Periodic adjustment is necessary to maintain effective brake operation.

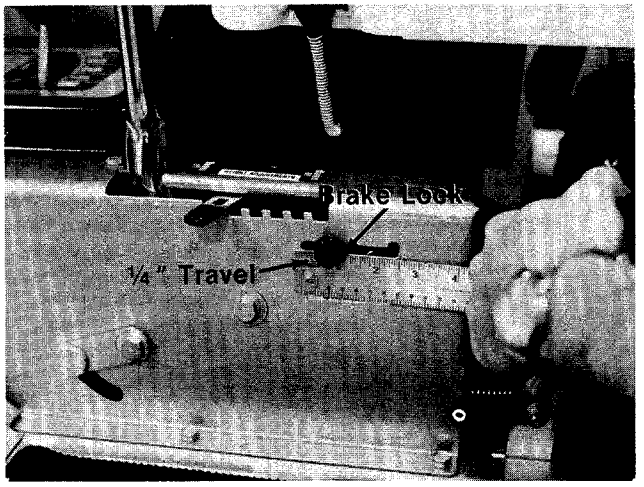


FIGURE 20.

WHEEL ADJUSTMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) require no adjustment. Automotive steering principals have been used to determine the caster and camber on the tractor. The front wheels should toe-in 1/8 inch.

To adjust the toe-in, follow these steps.

1. Remove the elastic lock nut and drop the tie rod end from the wheel bracket. See figure 21.

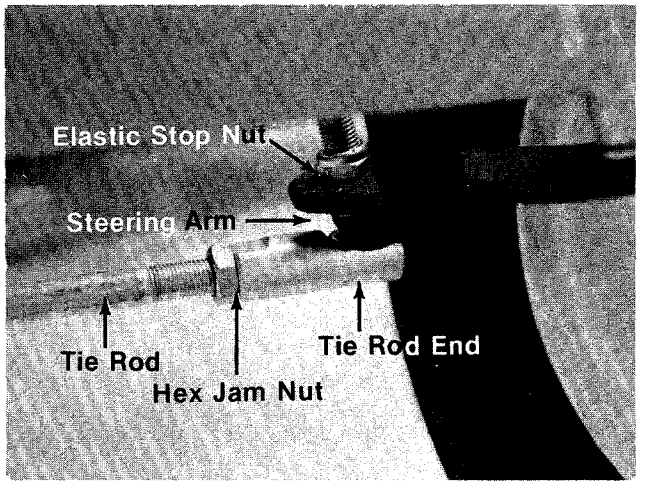


FIGURE 21.

2. Loosen the hex jam nut on tie rod.
3. Adjust the tie rod assembly for correct toe-in.

Dimension "B" should be approximately 1/8" less than Dimension "A." See figure 22.

A.) To increase Dimension "B," screw tie rod into tie rod end.

B.) To decrease Dimension "B," unscrew tie rod from tie rod end.

C.) Reassemble tie rod. Check dimensions. Readjust if necessary.

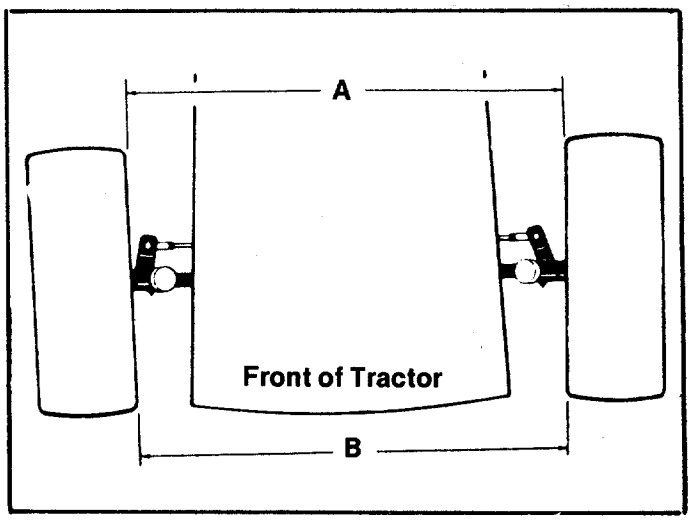


FIGURE 22. TOE-IN DIAGRAM

NOTE

To insure safe operation of your unit, ALL nuts and bolts must be checked periodically for correct tightness.

CARBURETOR ADJUSTMENTS (See figure 23)

WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.

To Adjust Carburetor—Turn needle valve clockwise until it just closes.

CAUTION

Valve may be damaged by turning it in too far.

Now open needle valve 1-1/8 turns counterclockwise. Close idle valve in same manner and open 1-1/8 turns. This initial adjustment will permit the engine to be started and warmed up prior to final adjustment.

Final Adjustment—Turn needle valve in until engine misses (lean mixture). Then turn it out past smooth operating point until engine runs enevenly (rich mixture). Now turn needle valve to the midpoint between rich and lean so the engine runs smoothly. Hold throttle at idle position and set idle speed adjusting screw until fast idle is obtained (1750 RPM). Hold throttle in idle position and turn idle valve in (lean) and out (rich) until engine idles smoothly. Then reset idle speed adjusting screw so that engine idles at 1750 RPM. Release throttle—engine should accelerate without hesitation or sputtering. If engine does not accelerate properly, the carburetor should be readjusted to a slightly richer mixture.

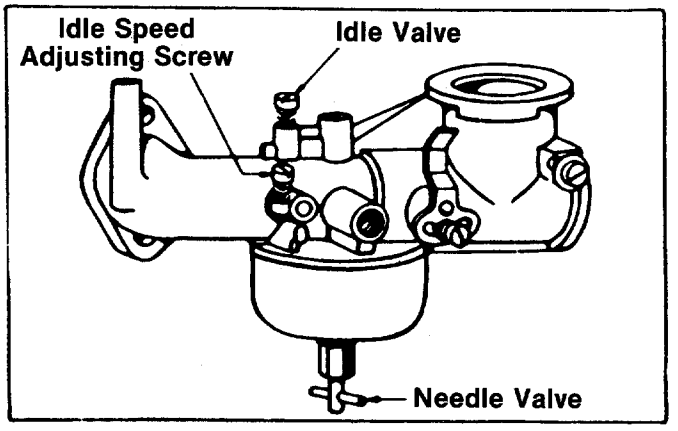


FIGURE 23. CARBURETOR ADJUSTMENT

ADJUSTING CARBURETOR CHOKE

Proper choke adjustment is dependent upon proper adjustment of remote controls on the powered equipment.

To Check Operation of Choke-A-Matic Controls:

Move control lever to "CHOKE" position. See figure 10. The carburetor choke should be closed.

NOTE

The air cleaner can be removed to check the operation of the choke.

To Adjust:

Place control lever on equipment in FAST (high speed) position. Loosen control casing clamp screw B. Move control casing A and wire until lever D touches choke operating link at C. Tighten casing clamp screw B. See figure 24.

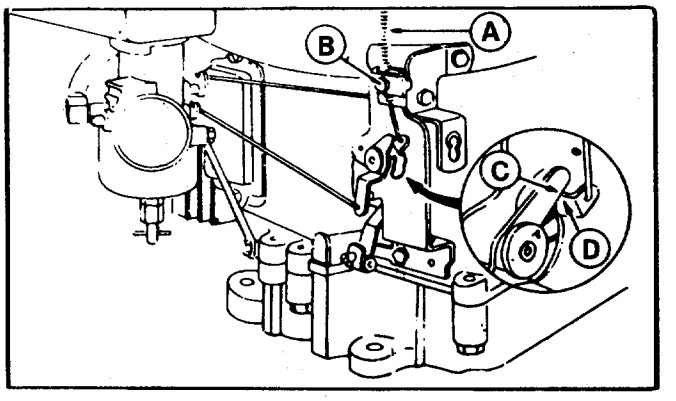


FIGURE 24. CHOKE ADJUSTMENT

LUBRICATION

1. **Wheel Bearings (4).** Lubricate with SAE 30 oil after every 25 hours of operation or once a season. See figure 25.
2. **King Pins (2).** Lubricate with SAE 30 oil after every 25 hours of operation or once a season. See figure 25.
3. **Front Pivot Bolt (1).** Lubricate with SAE 30 oil after every 25 hours of operation or once a season. See figure 25.

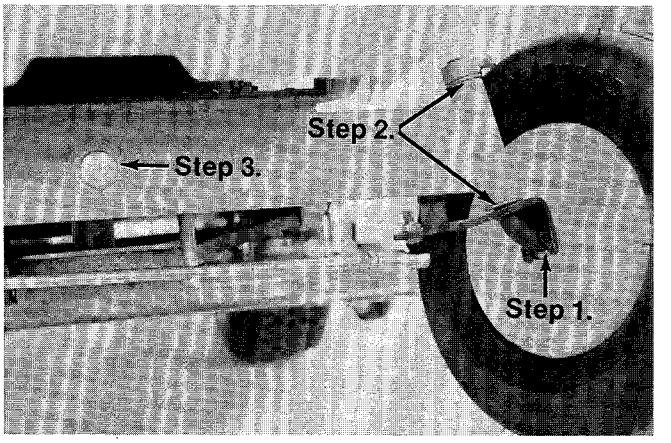


FIGURE 25.

4. **Steering Gears (2).** Lubricate teeth of gears with automotive multi-purpose grease after every 25 hours of operation or once a season. See figure 26.
5. **Steering Column Bearings (2).** Lubricate the top and bottom bearings with SAE 30 oil after every 25 hours of operation or once a season. See figure 26.
6. **Steering Shaft Bearings (2).** Require no lubrication. See figure 26.

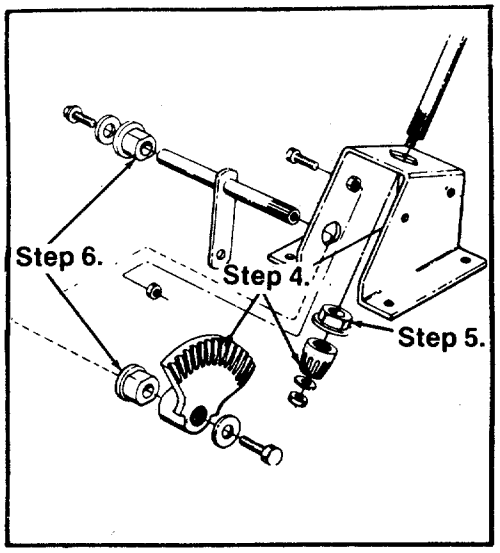


FIGURE 26.

7. **Transaxle.** The transaxle is sealed at the factory and does not require checking. If disassembled for any reason, lubricate with 24 oz. of EP Lithium grease. See figure 27.

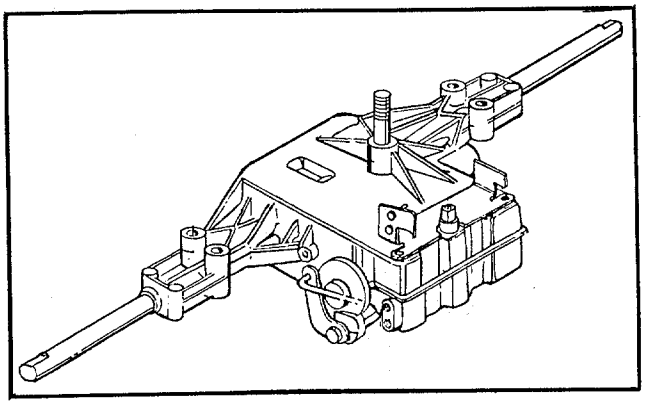


FIGURE 27.

The following parts should be oiled once a year with SAE 30 oil.

1. All deck links.
2. Clutch and brake pivot points and linkages.
3. Height adjustment levers.
4. Steering column bearings.

The following items have sealed bearings and require no further lubrication.

1. Blade Spindles
2. Idler Bearings
3. Tie Rod Ends

MAINTENANCE

CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

Oil Check

Check the oil level in the crankcase before each use of the machine and after every five hours of operation. Oil should be kept between the add and full marks on the dipstick. See figure 28.

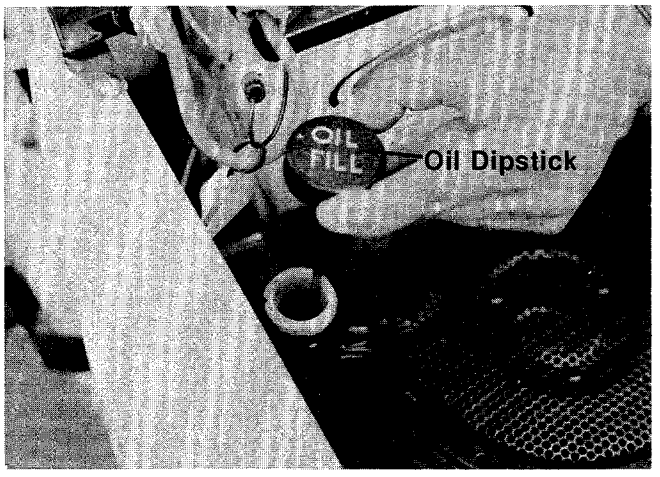


FIGURE 28.

After the first five hours of operating a new engine, drain the oil (see figure 29) from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil every 25 hours of operation. This procedure ensures minimum wear of engine parts. To change the oil, proceed as follows:

1. With the machine on level ground, place a suitable metal container under the oil drain plug, then remove the drain plug. See figure 29.

FIGURE 29.

2. After the oil has been drained completely from the crankcase, replace the drain plug and tighten.

3. Refill crankcase with 2¼ pints of good quality, type MS, engine oil into the crankcase. Summer use SAE 30; Winter (below 40°F) use SAE 5W-20 or SAE 10W.

AIR CLEANER

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions, the air cleaner must be serviced after every hour of operation. Refer to figure 30.

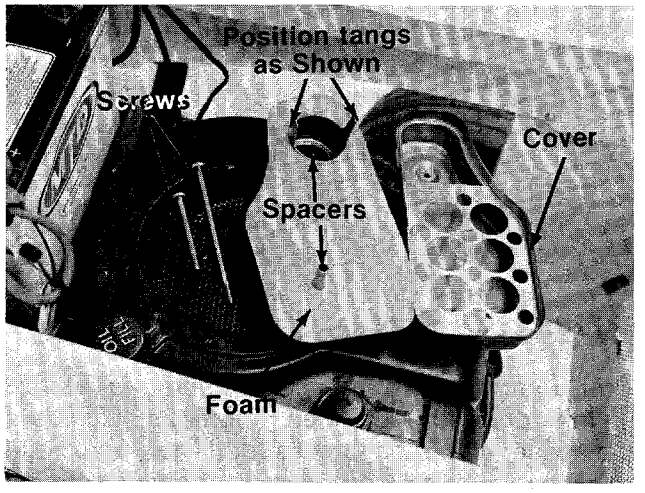


FIGURE 30.

When assembling the air cleaner, make certain the lip of the foam element extends over edge of the air cleaner body. The foam element will form a protective seal.

Step 1. Remove two screws and lift off complete air cleaner assembly.

Step 2. Remove screen and spacers from foam element.

Step 3. Remove foam element from air cleaner body.

Step 4. a. Wash foam element in kerosene or liquid detergent and water to remove dirt.

b. Wrap foam in cloth and squeeze dry.

c. Saturate foam in SAE 30 engine oil, then squeeze out excess oil.

d. Assemble parts. Fasten to carburetor with screw.

CLEANING ENGINE AND BLADE HOUSING

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the blade housing after each mowing.

BELTS

Check that belts are free of oil or dirt. Wipe the belts periodically with a clean rag.

NOTE

Belt tension is maintained by the spring on the idler bracket on the drive belts and the belt tension on the deck belt is maintained by the two deck springs.

SPARK PLUG

The spark plug should be cleaned and the gap reset to a 0.030-inch clearance once a season (see figures 31 and 32). Spark plug replacement is recommended at the start of each mowing season; check engine parts list for correct plug type.

NOTE

Whenever the spark plug is removed for cleaning, it is advisable to replace the spark plug gasket with a new gasket.

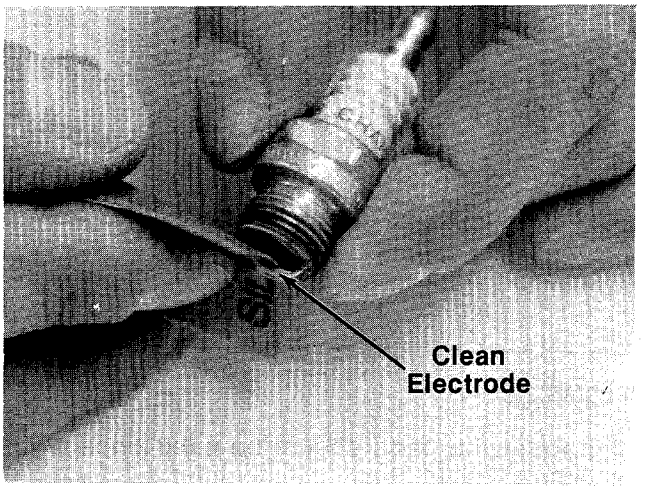


FIGURE 31.

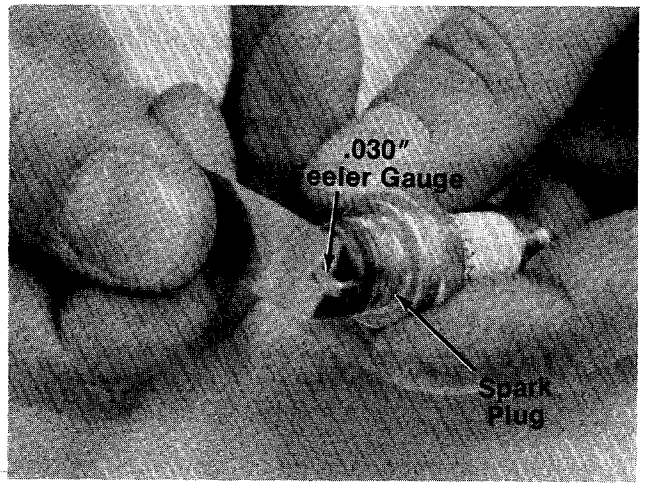


FIGURE 32.

REPLACING BLADE

WARNING

Before beginning work on the cutter blade, remove the spark plug from the cylinder.

Removing and Sharpening Blades. Remove the center bolt and lock washer. See figure 33. Pull the blade and blade adapter from the blade spindle.

The adapter can be removed from the blade by removing the two adapter bolts, lock washers and nuts.

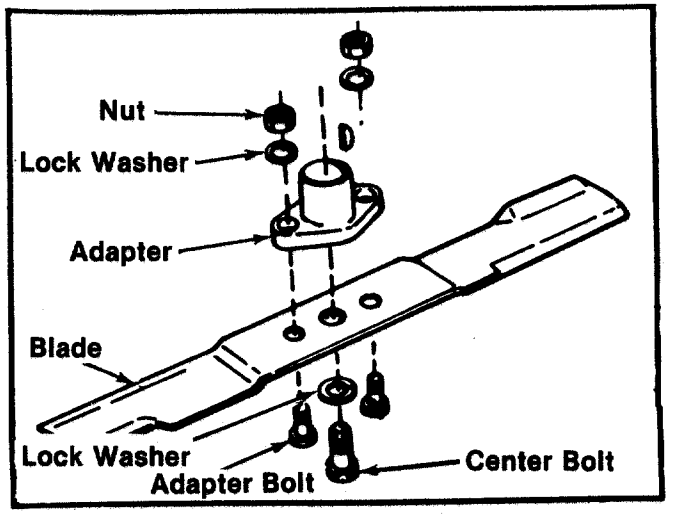


FIGURE 33. BLADE REMOVAL

NOTE

To insure safe operation of your unit, ALL nuts and bolts must be checked periodically for correct tightness.

BELT REMOVAL AND REPLACEMENT

Preparation

WARNING

Disconnect the spark plug wire and ground it against the engine.

1. Remove the battery.

CAUTION

Disconnect the negative terminal first and connect last when installing the battery.

2. To prevent gasoline from leaking from the engine, remove the gasoline cap, place a piece of thin plastic over the neck of the gasoline tank and screw on the cap.
3. Close the fuel shut-off valve.
4. Set the brake and lock it.
5. Lift the front end of the rider up and rest it on the rear wheels. It will balance in this position.
6. Secure with rope to prevent tipping.
7. Do not leave the rider in this position any longer than necessary as oil may get into the cylinder head. If this happens, remove the spark plug and crank over the engine to clear the oil.

Removing the Deck Belt

1. Place the lift lever in the disengaged position.
2. Remove the belt keeper and large bolt from the engine pulley. See figure 34.

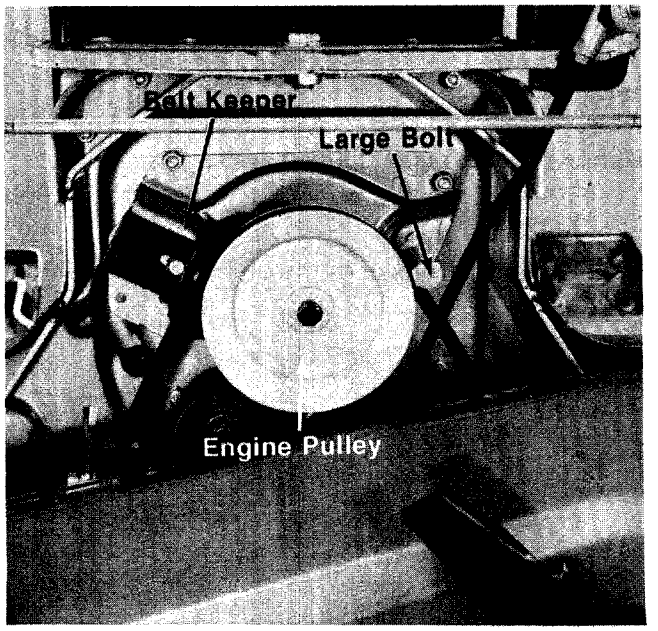


FIGURE 34.

3. Unhook the deck belt from the engine pulley.
4. Place the lift lever in the engaged position.
5. Remove the two deck tension springs. See figure 35.
6. Remove the cotterpins holding the four front deck links. The deck can now be tipped forward. See figure 35.
7. Remove the belt guard on the left deck pulley by removing the two bolts and nuts.
8. Remove the three shoulder bolts and washers next to the right deck pulley.

9. Remove and replace the deck belt. Reassemble in reverse order.

CAUTION

Be sure to remove plastic from beneath gasoline cap.

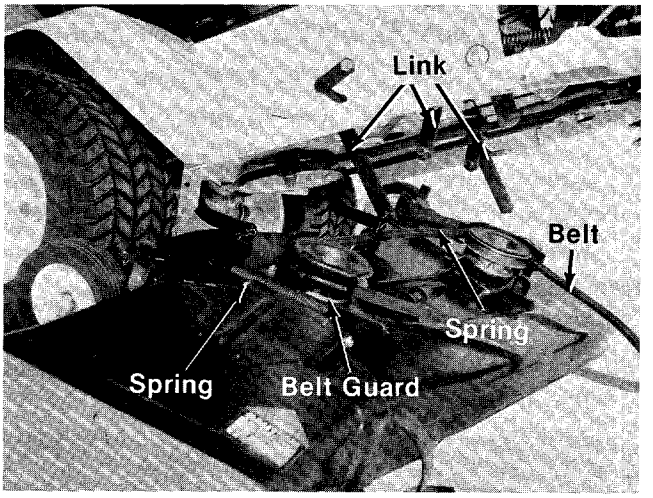


FIGURE 35.

Removing the Transmission Belt

1. Follow steps 1 through 6 on Preparing for Belt Removal.
2. Place the lift lever in the disengaged position.
3. Remove the belt keeper and large bolt from the engine pulley. See figure 34.
4. Unhook the deck belt from the engine pulley.
5. Place the lift lever in the engaged position.
6. Unhook the tension springs. See figure 35.
7. Remove the six cotter pins holding the deck to the links.
8. Lift off the deck and set it aside.
9. Remove the engine belt guard by removing the two front engine mounting bolts. See figure 36.
10. Remove the wire belt keeper on frame. See figure 36.
11. Slide belt off the V-idler and remove.
12. Unhook the belt from the engine pulley. See figure 37.
13. Replace the belt and reassemble in reverse order.

CAUTION

Be sure to remove plastic from beneath gasoline cap.

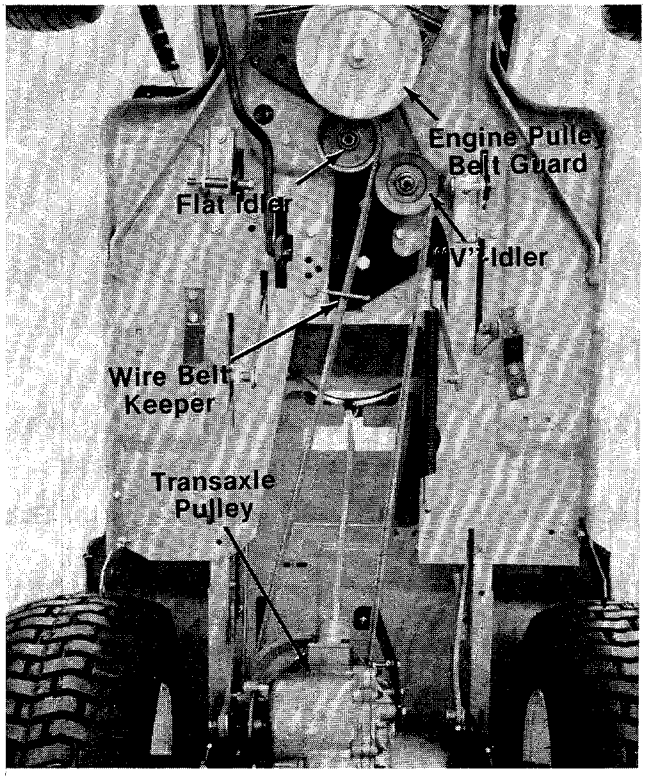


FIGURE 36.

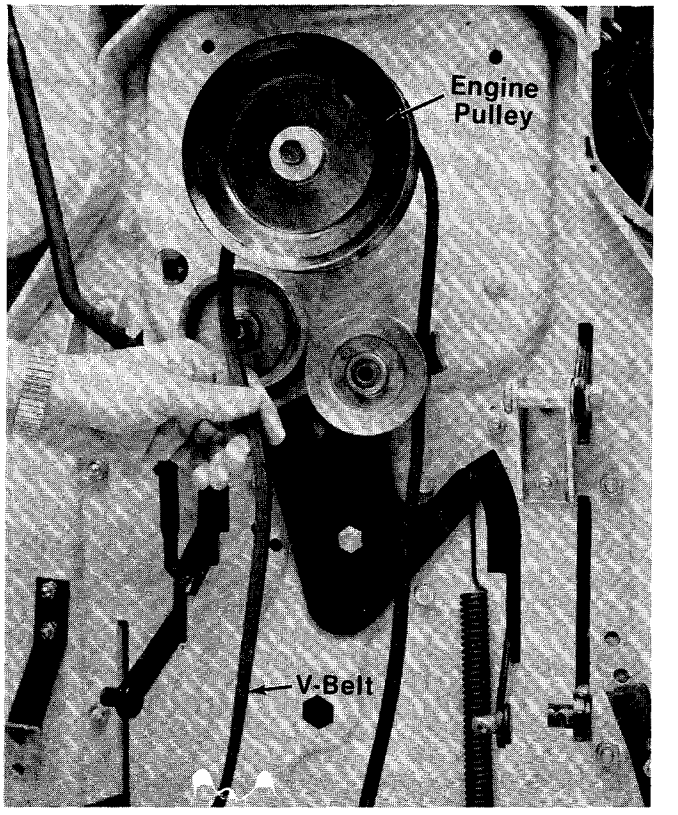


FIGURE 37.

OFF-SEASON STORAGE

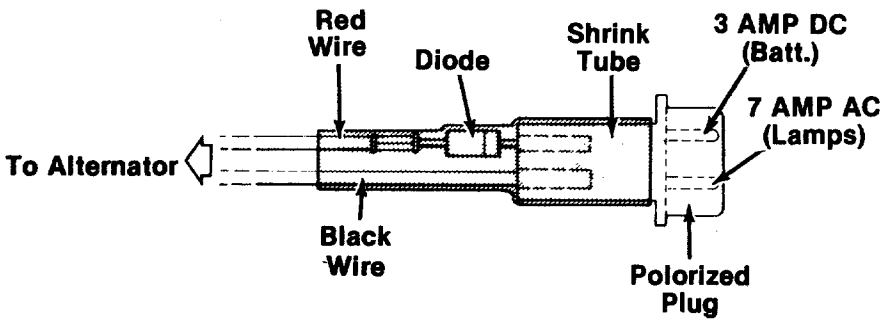
If the machine is to be inoperative for a period longer than 30 days, the following precautions are recommended:

1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in carburetor is exhausted.

Do not drain fuel while smoking, or if near an open fire.

2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil.
3. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about six drops of engine oil into the cylinder, and then pull the recoil starter several times to spread the oil on the cylinder wall. Replace the spark plug, but DO NOT connect the wire.
4. Clean the engine and the entire mower thoroughly.
5. Lubricate all lubrication points indicated in figures 25, 26 and 27. Then wipe the entire machine with an oiled rag in order to protect the surfaces.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	The battery must be installed with the negative, identified at the terminal post by (Neg, N or -), grounded. The positive (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.
	Blow fuse or circuit breaker	Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrican's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working, either engine alternator or trickle charger. **Trickle Charger.** Check with multimeter. Charger 725-0578—input 120 V A.C., no load output 13.5 V D.C. rated load current 1 amp. Charger 725-0507—input 120 V A.C., no load output 17.4 V D.C., rated load current 1/2 amp. **Alternator** (dual or single circuit) The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.  The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not,the alternator (stator) or lead wire is bad and should be replaced.
	Mechanical failure. (Wires and switches)	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. **If the engine does not crank:** (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.
Engine cranks but will not start	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke (if separate control) for starting.

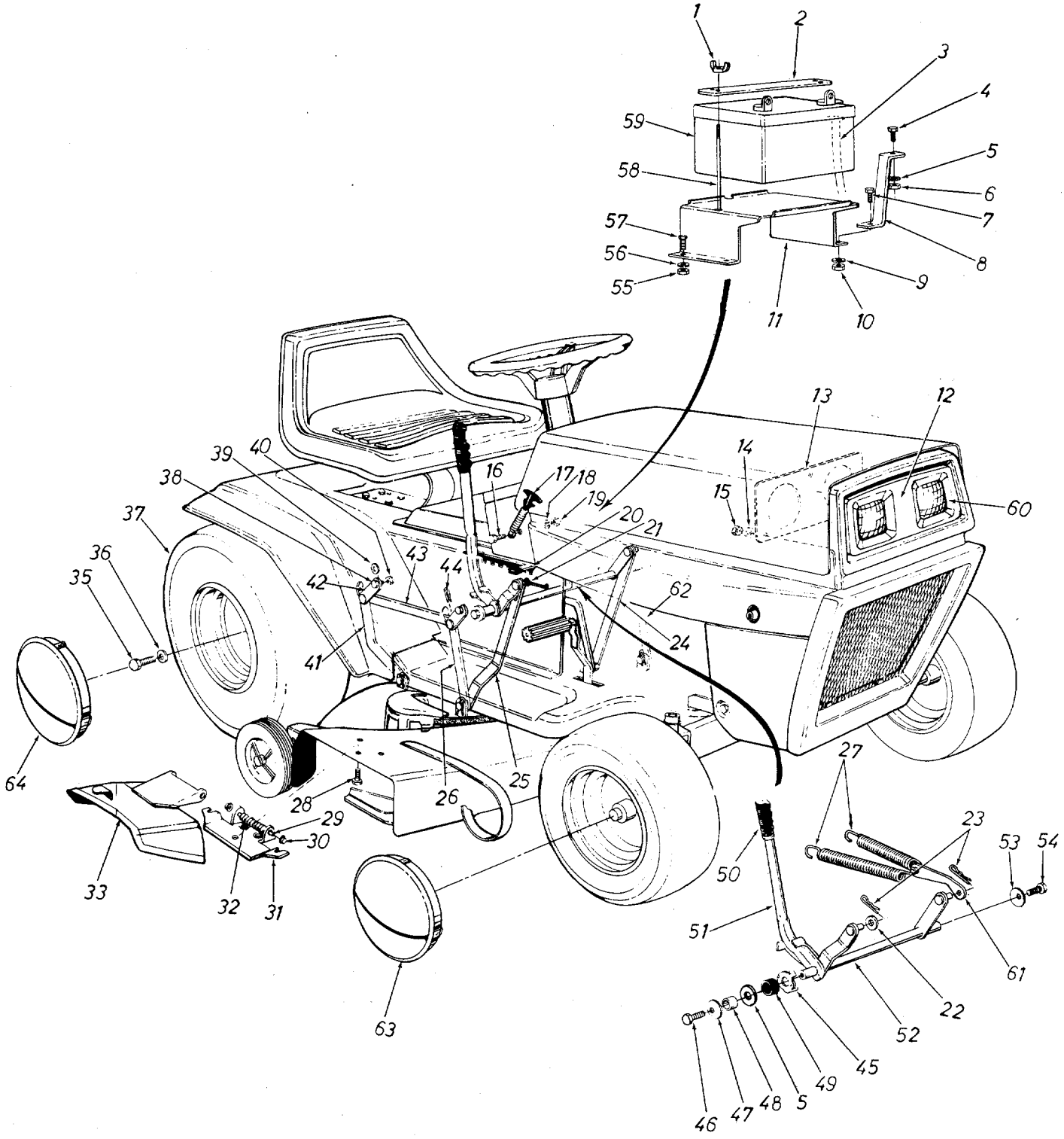
TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
	No spark to spark plug	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line plugged. Remove and clean.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
Engine smokes	Engine loses crankcase vacuum	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	**Stop engine immediately.** Check all pulleys, blade spindles, blade adpaters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	**Stop engine immediately.** Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low	Throttle must be set between 3/4 and full throttle.
	Transmission selection	Use lower transmission speed. The slower your ground speed, the better quality of cut.
	Blades short or dull	Sharpen or replace blades (uncut strip problem only).

131-498A

IF YOU WRITE TO US ABOUT THIS ARTICLE OR IF YOU ORDER REPLACEMENT PARTS ALWAYS MENTION THIS MODEL & SERIAL NO

MODEL



RIGHT HAND VIEW

131-498A PARTS LIST FOR RIGHT HAND VIEW MODEL 131-498A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	712-0113		Wing Nut Solid ¼-20 Thd.	
2	12614		Battery Hold Down	
3	731-0333		Convoluted Conduit	
4	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.	
5	736-0237		Fl-Wash.	
6	712-0272		Hex Nut ¼-20 Thd. Sems*	
7	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
8	12811		Battery Brkt. Brace	
9	736-0329		L-Wash. ¼" Scr.*	
10	712-0287		Hex Nut ¼-20 Thd.*	
11	12747		Battery Brkt.	
12	14232		Head Lamp Bezel	
13	12788		Head Lamp Retainer	
14	736-0329		L-Wash. ¼" Scr.*	
15	712-0287		Hex Nut ¼-20 Thd.*	
16	710-0289		Hex Scr. ¼-20 x .50" Lg.*	
17	723-0296		Hood Latch Ass'y.	
18	736-0329		L-Wash. ¼" Scr.*	
19	712-0287		Hex Nut ¼-20 Thd.*	
20	11027		Handle Stop Brkt. Ass'y.	
21	726-0121		Push Cap ¼" Dia. Black	
22	736-0192		Fl-Wash. .531 I.D. x 1.13 O.D.	
23	714-0101		Inter. Cot. Pin ½" Dia.	
24	13636		Lock Out Link Ass'y.	
25	13636		Lock Out Link Ass'y. (Straight)	
26	10904		Deck Link Ass'y.	
27	732-0233		Spring	
28	710-0195		Hex Scr. ¼-28 x .62" Lg.*	
29	711-0576		Pivot Pin	
30	726-0106		Push-On Flange Palnut	
31	11399		Adapter Plate Ass'y.	
32	732-0261		Torsion Spring	
33	11633		Chute Cover Ass'y.	
35	710-0627		Hex Scr. 5/16-24 x .75" Lg.*	
36	736-0242		Bell-Wash. .345 I.D. x .88 O.D.	
37	734-0601		Rear Wheel Ass'y.—Comp. 18.0 x 8.50	
38	738-0140		Shld. Scr. .437 Dia. x .180	
39	736-0264		Fl-Wash. .344 I.D. x .62 O.D.	
40	712-0267		Hex Nut 5/16-18 Thd.*	
41	10349		Deck Link Ass'y.	
42	09721		Pivot Link Ass'y.	
43	09735		Connecting Rod 3/16 x 1 x 12.5" Lg.	
44	714-0101		Inter. Cot. Pin ½" Dia.	
45	11029		Handle Pivot Brkt.	
46	710-0201		Hex Scr. 3/8-16 x .62" Lg.*	
47	736-0219		Belleville Washer	
48	748-0273		Spacer .632 I.D. x .88 O.D.	
49	735-0195		Rubber Wash.	
50	720-0157		Grip	
51	749-0212		Lift Handle	
52	13630		Lift Handle Brkt. Ass'y.	
53	736-0219		Bell-Wash. .400 I.D. x 1.13 O.D.	
54	710-0201		Hex Scr. 3/8-16 x .62" Lg.*	
55	712-0287		Hex Nut ¼-20 Thd.*	
56	736-0329		L-Wash. ¼" Scr.*	
57	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
58	711-0222		Battery Hold Down Rod	
59	725-0453		Battery 12-Volt Manifold Vented	
60	725-0222		Headlight	
61	13638		Spring Link	
62	10904		Deck Link Ass'y.	
63	734-0541		6" Hub Cap	
64	734-0542		8" Hub Cap	

NOTE

This instruction manual covers various models, and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(610—Rose)

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Rose Finish—12780 (610).)

WHEEL CHART

FRONT WHEEL		REAR WHEEL	
PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
734-0998	Wheel Ass'y. Comp.	734-0601	Wheel Ass'y. Comp.
734-0997	Rim Ass'y. Only	734-0603	Rim Ass'y. Only
734-0498	Tire Only 15 x 6.00	734-0516	Tire Only 18 x 8.50
734-0255	Air Valve	734-0255	Air Valve
741-0313	Bearing		

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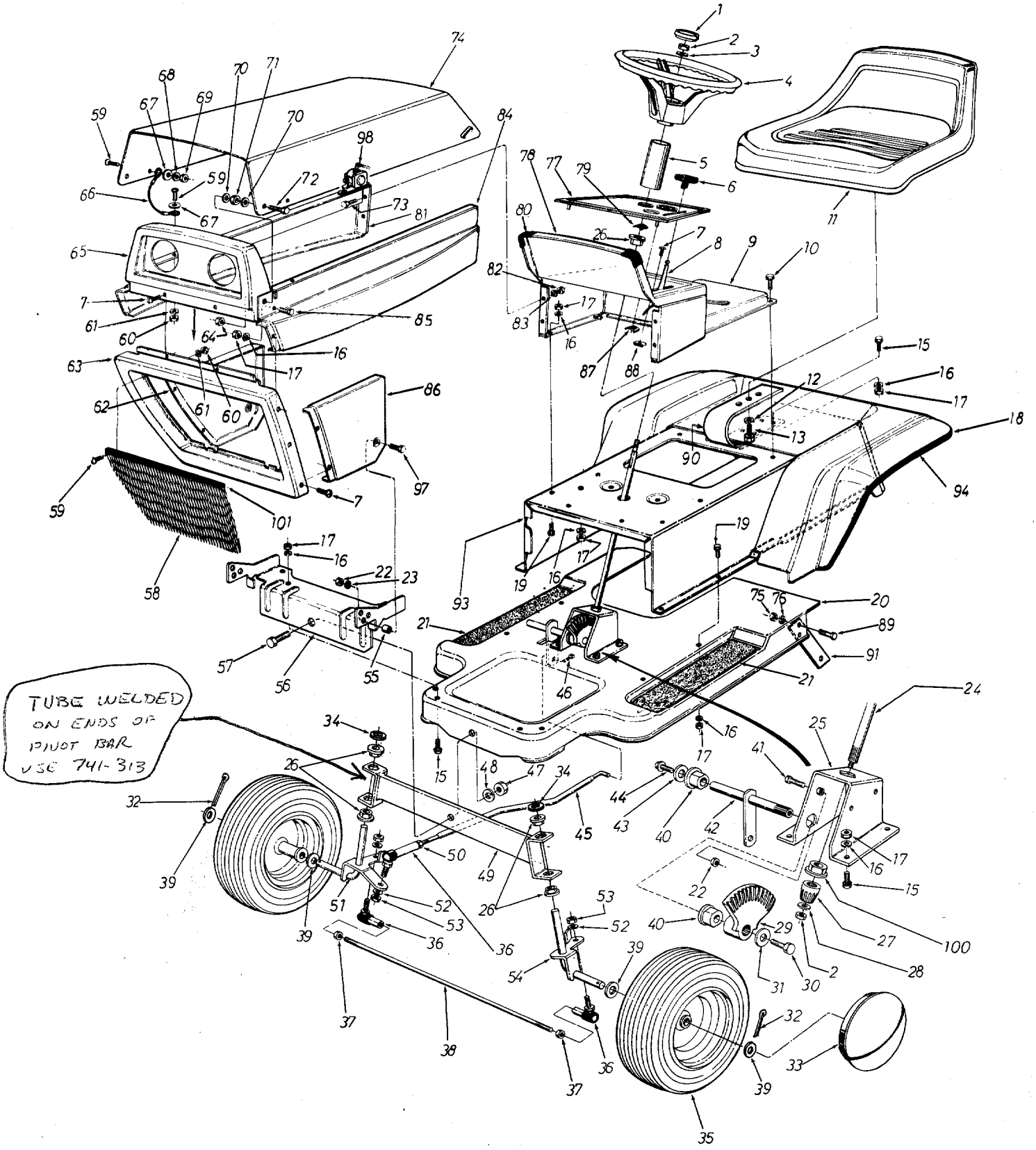

LEFT HAND VIEW

131-498A PARTS LIST FOR LEFT HAND VIEW MODEL 131-498A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
3	736-0242		Bell-Wash. .345 I.D. x .88 O.D.	
4	731-0356		Steering Wheel	
5	750-0319		Steering Tube	
6	722-0111		Knob—Throttle Control	
7	710-0227		Hex AB Tapp Scr. #8 x .50" Lg.	
8	746-0356		Throttle Control Ass'y. Comp.	
9	13449		Transmission Cover	
10	710-0599		Hex C-Tap. Scr. ¼-20 x .50" Lg.	
11	757-0299		Seat Ass'y.	
12	736-0921		L-Wash. ½" Scr.*	
13	710-0493		Hex Bolt ½-13 x 1.00" Lg.*	
14	741-0313		Flange Bearing	
15	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
16	736-0119		L-Wash. 5/16" Scr.*	
17	712-0267		Hex Nut 5/16-18 Thd.*	
18	11839	—462	Rear Fender	
19	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*	
20	13460		Frame Assembly	
21	723-0241		Foot Pad 15.75 x 4.00"	
22	712-0798		Hex Nut 3/8-16 Thd.*	
23	736-0105		Bell-Wash. .400 I.D. x .88 O.D.	
24	738-0317		Steering Shaft	
25	12850		Steering Gear Support Ass'y.	
26	741-0225		Hex Flange Bearing .630 I.D.	
27	748-0237		Pinion Gear	
28	736-0264		Fl-Wash. .344 I.D. x .62 O.D.	
29	748-0236		Side Gear	
30	710-0180		Hex Scr. 3/8-24 x .75" Lg.*	
31	736-0133		Fl-Wash. .406 I.D. x 1.25 O.D.	
32	714-0470		Cotter Pin 1/8" Dia. x 1.25" Lg.*	
33	734-0541		Hub Cap for 6.0" Dia. Rim	
34	726-0159		Push Nut	
35	734-0998		Front Wheel Ass'y.—Comp. 15 x 6	
36	723-0156		Ball Joint Ass'y. 3/8-24 Thd.	
37	712-0711		Hex Jam Nut 3/8-24 Thd.	
38	711-0613		Tie Rod	
39	736-0156		Fl-Wash. .635 I.D. x 1.20 O.D.	
40	748-0199		Plas. Flange Brg. w/Flats .75 I.D.	
41	710-0670		Hex Nylon Scr. 3/8-16 x 1.25" Lg.	
42	12749		Steering Arm Shaft Ass'y.	
43	736-0133		Fl-Wash. .406 I.D. x 1.25 O.D.	
44	710-0180		Hex Scr. 3/8-24 x .75" Lg.*	
45	747-0186		Steering Rod	
46	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.*	
47	712-0923		Hex Cent. L-Nut 5/8-16 Thd.	
48	736-0158		L-Wash. 5/8" Scr.*	
49	14198		Front Pivot Bar Ass'y.	
50	712-0711		Hex Jam Nut 3/8-24 Thd.	
51	14452		Axle Ass'y.—Front R.H.	N
52	736-0169		L-Wash. 3/8" Scr.*	
53	712-0241		Hex Nut 3/8-24 Thd.*	
54	14453		Axle Ass'y.—Front L.H.	N
55	748-0193		Spacer .380 I.D. x .630 O.D. x .575 Lg.	
56	12411		Front Pivot Bracket	
57	710-0622		Hex Scr. 5/8-18 x 1.62" Lg.*	
58	12791		Grille Screen	
59	710-0192		Truss Scr. #10-24 x .375" Lg.*	
60	712-0121		Hex Nut #10-24 Thd.*	
61	736-0722		L-Wash. #10 Scr.*	
62	12782		Lower Side Panel R.H.	
63	12781		Lower Grille Panel	
64	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
65	12814		Front Grille Upper Ass'y.	
66	727-0199		Hood Stop	
67	736-0463		Fl-Wash. 25 I.D. x .62 O.D.	
68	736-0722		L-Wash. #10 Scr.*	
69	712-0121		Hex Nut #10-24 Thd.*	
70	736-0101		Fl-Wash. .380 I.D. x 1.00 O.D.	
71	735-0126		Rubber Wash. .33 I.D. x .87 O.D.	
72	710-0253		Hex Scr. 3/8-16 x 1.00" Lg.*	
73	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
74	12780		Front Hood	
75	712-0287		Hex Nut ¼-20 Thd.*	
76	736-0329		L-Wash. ¼ Scr.*	
77	731-0476		Dash Panel Insert	
78	13877		Dash Panel Ass'y.	
79	712-0222		Speed Nut Push-On 5/8" Dia.	
80	722-0133		Foam Strip	
81	13974		Side Panel R.H.	
82	712-0287		Hex Nut ¼-20 Thd.*	
83	736-0329		L-Wash. ¼" Scr.*	
84	12785		Side Panel L.H.	
85	710-0621		Hex Scr. 5/16-18 x .50" Lg.*	
86	12783		Lower Side Panel L.H.	
87	726-0157		Speed Nut 1/8" Stud	
88	712-0147		Speed Nut #10-24 "U"-Type	
89	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
90	732-0354		Seat Spring 4.125" High	
91	10410		Spring Brkt.	
93	13474		Upper Frame	
94	731-0511		Trim Strip	
97	710-0342		Hex Scr. 3/8-16 x 1.25" Lg.*	
98	725-0530		Solenoid	
100	741-0225		Flange Brg. .630 I.D.	
101	731-0144		Ext. Vinyl U-Channel	
102	712-0237		Nut 5/16-24	

(462—Burgundy)
(610—Rose)

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When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Rose Finish—12780 (610).)

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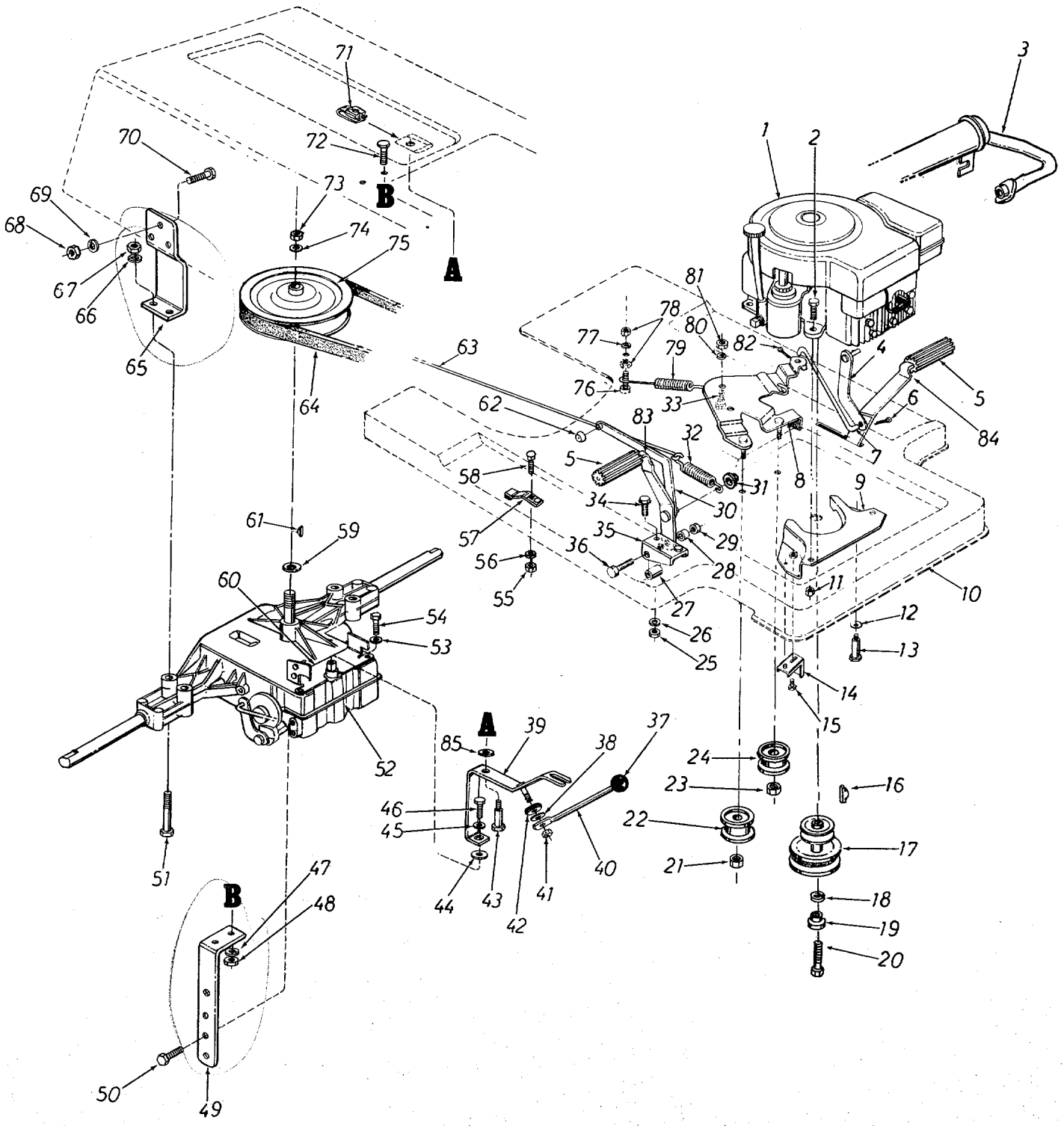

FRAME VIEW

131-498A PARTS LIST FOR FRAME VIEW MODEL 131-498A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	11 H.P.		Engine	
2	710-0442		Hex Bolt 5/16-18 x 1.50" Lg. (Grade 5)	
3	751-0263		Muffler	
4	11057		Parking Brake Lever Ass'y.	
5	735-0201		Foot Pad (Brake and Clutch Pedals)	
6	714-0474		Cotter Pin 3/32" Dia. x .75" Lg.*	
7	747-0112		Clutch Rod	
8	12448		Idler Brkt. Ass'y.	
9	12654		Belt Guard Ass'y.—Engine	
10	13460		Frame Ass'y.	
11	712-0267		Hex Nut 5/16-18 Thd.*	
12	736-0105		Bell-Wash. .400" I.D. x .88" O.D.	
13	738-0215		Shld. Bolt .489" Dia. x 3.00" Lg.	
14	12160		Belt Keeper Ass'y.	
15	710-0259		Hex Sems Bolt 5/16-18 x .62" Lg.*	
16	714-0365		#6 Hi-Pro Key	
17	756-0303		Engine Pulley	
18	736-0169		L-Wash. 3/8" I.D.*	
19	711-0572		Step Wash. (Special)	
20	710-0459		Hex Bolt 3/8-24 x 1.50" Lg. (Grade 5)	
21	712-0116		Hex L-Nut 3/8-24 Thd.	
22	756-0217		Flat Idler Pulley	
23	712-0116		Hex L-Nut 3/8-24 Thd.	
24	756-0116		V-Idler Pulley	
25	712-0267		Hex Nut 5/16-18 Thd.*	
26	736-0119		L-Wash. 5/16" I.D.*	
27	750-0298		Spacer .384 I.D. x .50" O.D. x 1.43" Lg.	
28	711-0630		Spacer .380" I.D. x .50" O.D. x .562" Lg.	
29	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
30	13875		Parking Brake Lever Ass'y.	
31	726-0100		Push Cap	
32	732-0245		Extension Spring .90" O.D. x 3.75" Lg	
33	738-0140		Shld. Bolt .437" Dia. x .180	
34	710-0198		Hex Sems Bolt 5/16-18 x .75" Lg.*	
35	11039		Pedal "U"-Brkt. Ass'y.	
36	710-0194		Hex Bolt 3/8-16 x 3.00" Lg.*	
37	720-0165		Ball Knob—For Shift Lever	
38	736-0159		Fl-Wash. .344" I.D. x .88" O.D.	
39	13446		Shift Lever Brkt. Ass'y.	
40	13447		Shift Lever	
41	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
42	735-0126		Rubber Wash. .33" I.D. x .87" O.D.	
43	738-0477		Shld. Bolt .437" Dia. x 1.20" Lg. (5/16-18 Thd.)	N
44	717-0234		Special Wash. 1.00" O.D. (Hdn.)	
45	736-0270		Bell-Wash. .25" I.D. x .375" O.D.	
46	710-0513		Hex Bolt ¼-28 x .62" Lg.	
47	736-0119		L-Wash. 5/16" I.D.*	
48	712-0267		Hex Nut 5/16-18 Thd.*	
49	13436		Torque Bracket	
50	710-0601		Hex Self-Tap Scr. 5/16-24 x .75" Lg.	
51	710-0145		Hex Bolt 5/16-24 x 2.75" Lg.*	
52	—		5-Speed Transaxle (See Breakdown Page 30)	
53	736-0119		L-Wash. 5/16" I.D.*	
54	710-0601		Hex Self-Tap Scr. 5/16-24 x .75" Lg.	
55	712-0287		Hex Nut ¼-20 Thd.*	
56	736-0329		L-Wash. ¼" I.D.*	
57	761-0157		Blade Brake	
58	710-0134		Carriage Bolt ¼-20 x .62" Lg.*	
59	736-0160		Fl-Wash.	
60	14153		Transaxle Belt Keeper Ass'y.	
61	714-0129		#4 Hi-Pro Key 3/32" x 5/8" Dia.	
62	726-0121		Push Cap ¼" Dia.	
63	747-0335		Brake Rod	
64	754-0226		"V"-Belt ½" x 82" Lg.	
65	13437		Axle Brkt.	
66	736-0169		L-Wash. 3/8" I.D.*	
67	712-0262		Hex Cent. L-Nut 3/8-24 Thd.	
68	712-0267		Hex Nut 5/16-18 Thd.*	
69	736-0119		L-Wash. 5/16" I.D.*	
70	710-0198		Hex Bolt 5/16-18 x .75" Lg.*	
71	712-0315		J-Type Grip Nut 5/16-18	
72	710-0198		Hex Bolt 5/16-18 x .75" Lg.*	
73	712-0922		Hex Jam Nut ½-20 Thd.*	
74	736-0921		L-Wash. ½" I.D.*	
75	756-0254		Transaxle Pulley	
76	710-0322		Hex Sems Bolt 5/16-18 x 1.00" Lg.*	
77	736-0119		L-Wash. 5/16" I.D.*	
78	712-0267		Hex Nut 5/16-18 Thd.*	
79	732-0191		Spring .75" O.D. x 11.00" Lg.	
80	736-0119		L-Wash. 5/16" I.D.*	
81	712-0267		Hex Nut 5/16-18 Thd.*	
82	714-0474		Cotter Pin 3/32" Dia. x .75" Lg.*	
83	14219		Brake Pedal Ass'y.	
84	14220		Clutch Pedal	
85	736-0271		Spring Wash. .315" I.D. x .635" O.D.	

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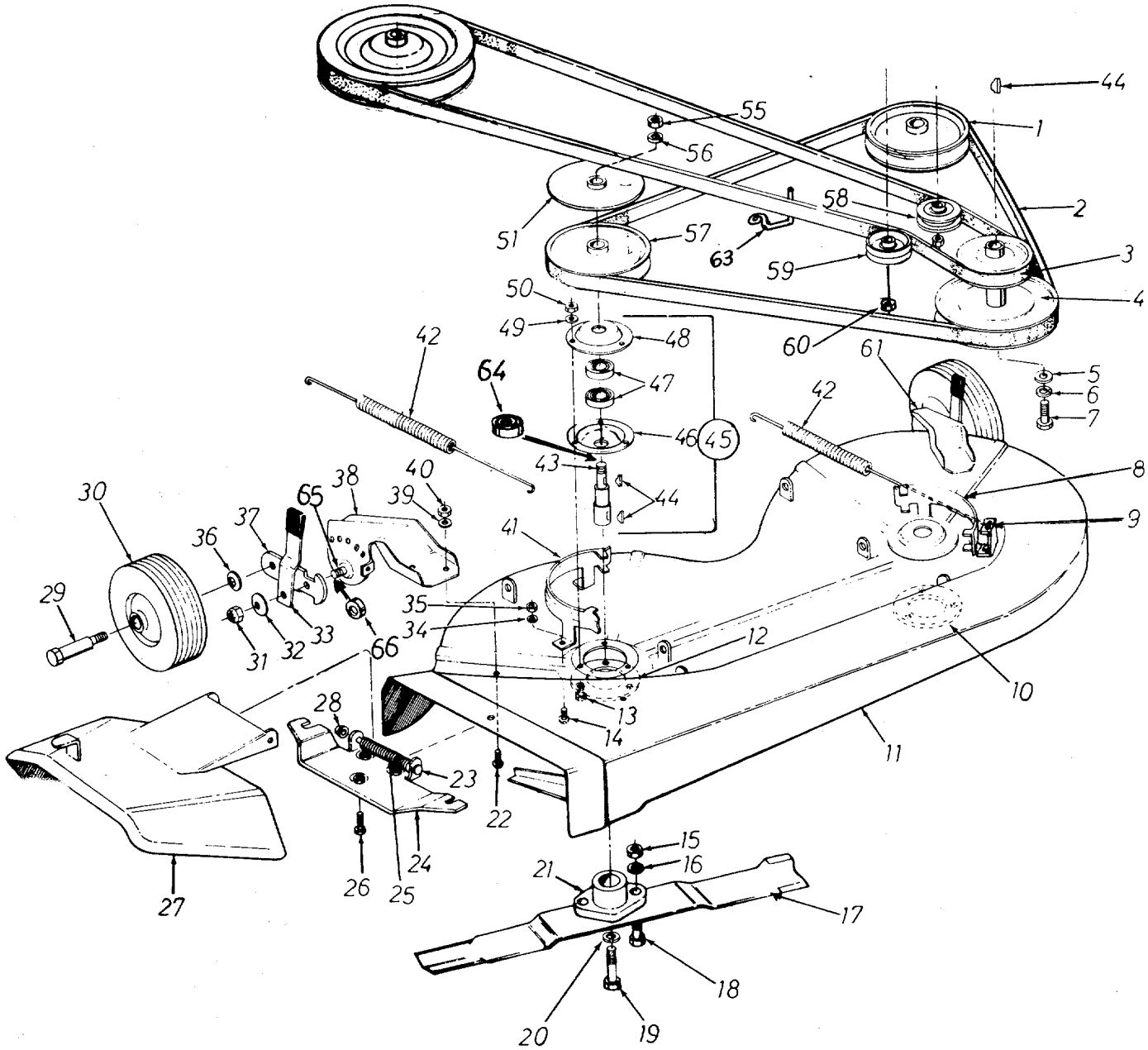
IMPORTANT

Belts listed by Part Number are of special contruction and should be used when replacement is necessary. The dimensions and descrition given are for general reference only and belts purchased by description and dimension generally will only provide a temporary service.



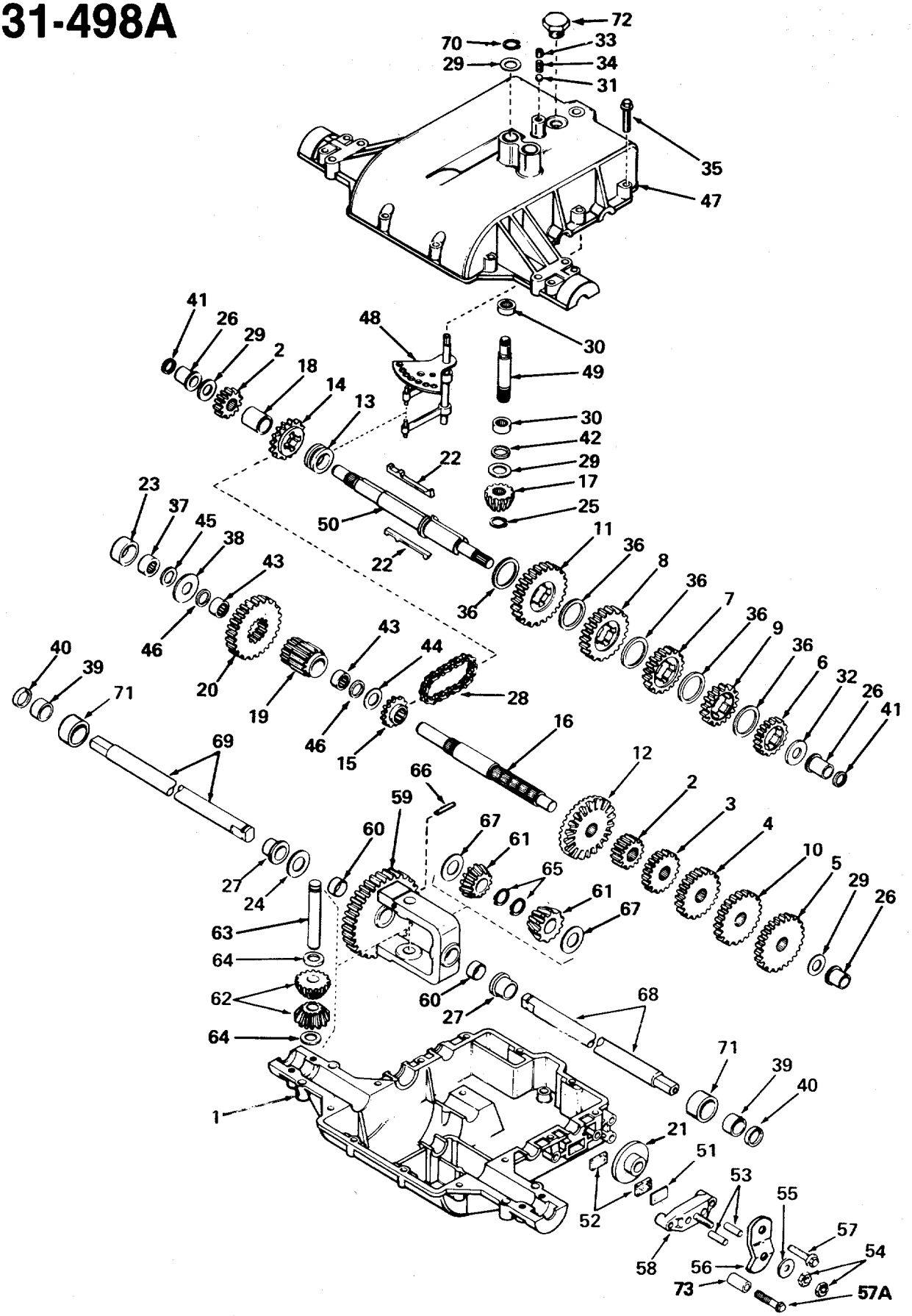
DECK VIEW

131-498A PARTS LIST FOR DECK VIEW MODEL 131-498A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	756-0251		Deck Pulley 4.75" O.D.	
2	754-0145		"V"-Belt 21/32 x 69" Lg. (Blade Drive Belt)	
3	754-0226		"V"-Belt ½ x 82" Lg. (Transmission)	
4	756-0303		Two Step Engine Pulley	
5	711-0572		Step Wash. O.D.	
6	736-0169		L-Wash. 3/8" Scr.*	
7	710-0331		Hex Scr. 3/8-24 x 2.25" Lg. (Grade 5)	
8	12672		Belt Guard—L.H. Deck	
9	12405		Deck Spring Brkt.	
10	09164		Deck Reinforcement Plate	
11	13454		38" Deck Ass'y.	
	13453		38" Deck Ass'y. Comp. (For Service Only)	
12	09164		Deck Reinforcement Plate	
13	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
14	710-0289		Hex Scr. ¼-20 x .50" Lg.*	
15	712-0123		Hex Nut 5/16-24 Thd.*	
16	736-0119		L-Wash. 5/16" Scr.*	
17	742-0122		19" Blade	
18	710-0117		Hex Scr. 5/16-24 x 1.00" Lg.	
19	710-0459		Hex Scr. 3/8-24 x 1.50" Lg. H.T.	
20	736-0217		L-Wash. 3/8" Scr. (Heavy Duty)	
21	748-0189		Blade Adapter	
22	710-0289		Hex Scr. ¼-20 x .50" Lg.*	
23	711-0571		Pivot Pin	
24	11399		Adapter Plate Ass'y.	
25	732-0261		Torsion Spring	
26	710-0195		Hex Scr. ¼-28 x .62" Lg.*	
27	11574		Chute Cover Ass'y.	
28	726-0106		Push Nut—¼" Rod	
29	738-0373		Shld. Scr. .478 Dia. x 1.53" Lg.	
30	734-0973		Wheel Ass'y.—5.0 x 1.38 Dia. (Deck)	
31	712-0181		Hex L-Nut 3/8-16 Thd.	
32	736-0219		Bell-Wash. .400 I.D. x .88 O.D.	
33	14082		Spring Lever Ass'y. w/Knob	
34	736-0329		L-Wash. ¼" Scr.*	
35	712-0287		Hex Nut ¼-20 Thd.*	
36	736-0105		Bell-Wash. .400 I.D. x .88 O.D.	
37	10937		Wheel Pivot Bar	
38	09080		Wheel Brkt.—R.H. (Deck)	
39	736-0329		L-Wash. ¼" Scr.*	
40	712-0287		Hex Nut ¼-20 Thd.*	
41	12673		Belt Guard—R.H. (Deck)	
42	732-0307		Extension Spring	
43	711-0255		Blade Spindle	
44	714-0365		#6 Hi-Pro Key 5/32 x 5/8" Dia.	
45	09321		Spindle Ass'y. Comp. (Deck)	
46	08253		Bearing Housing	
47	741-0919		Ball Bearing .787 I.D. x 1.85 O.D.	
48	08253		Bearing Housing	
49	736-0329		L-Wash. ¼" Scr.*	
50	712-0287		Hex Nut ¼-20 Thd.*	
51	09322		Blade Brake Disc	
55	712-0261		Hex Jam Nut 5/8-11 Thd.	
56	736-0158		L-Wash. 5/8" Scr.*	
57	756-0251		Deck Pulley 4.75" O.D.	
58	756-0116		"V"-Belt Idler 3.06" O.D.	
59	756-0217		Fl-Idler 2.75" O.D. w/Flanges	
60	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
61	09082		Wheel Brkt.—L.H. (Deck)	
63	732-0358		Belt Trap	
64	13703		Bearing Shield	
65	710-0342		Hex Bolt 3/8-16 x 1.00" Lg.	
66	748-0279		Shoulder Spacer	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

131-498A

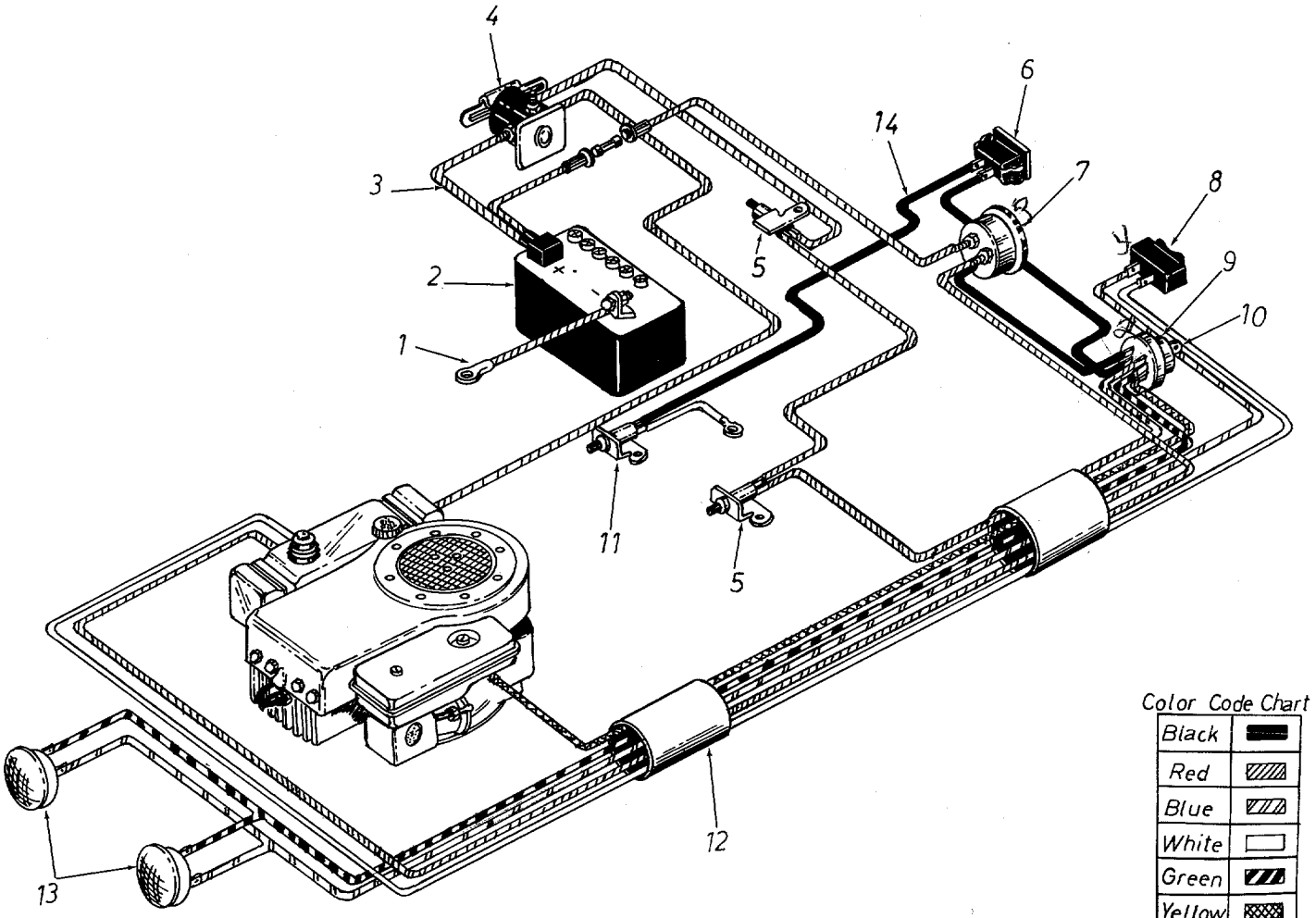


TRANSAXLE MODEL NO. 813, 813A 717-0448

131-498A PEERLESS TRANSAXLE MODELS 813 & 813-A

REF. NO.	PART NO.	DESCRIPTION
1	PE-770069A	Case, Transaxle
2	PE-778136	Gear, Spur (15 Teeth) (Model 813)
2	PE-778145	Gear, Spur (12 Teeth) (Model 813-A)
3	PE-778126	Gear, Spur (20 Teeth)
4	PE-778127	Gear, Spur (25 Teeth)
5	PE-778129	Gear, Spur (30 Teeth)
6	PE-778121A	Gear, Spur (20 Teeth)
7	PE-778123	Gear, Spur (25 Teeth)
8	PE-778124	Gear, Spur (30 Teeth)
9	PE-778122	Gear, Spur (22 Teeth)
10	PE-778128	Gear, Spur (28 Teeth)
11	PE-778125	Gear, Spur (35 Teeth) (Model 813)
11	PE-778146	Gear, Spur (37 Teeth) (Model 813-A)
12	PE-778137	Gear, Bevel (42 Teeth)
13	PE-784266	Collar, Shift
14	PE-786083	Sprocket (18 Teeth)
15	PE-786082	Sprocket (9 Teeth)
16	PE-776181	Shaft, Counter
17	PE-778113A	Bevel Pinion, Input
18	PE-786074	Spacer
19	PE-778138	Pinion, Output
20	PE-778139	Gear, Output
21	PE-790003	Disk, Brake
22	PE-792089A	Key
23	PE-786075	Spacer
24	PE-780001	Washer
25	PE-788040	Ring, Retaining
26	PE-780105	Bushing, Flanged
27	PE-780118	Bushing, Flanged
28	PE-786081	Chain, Roller (No. 41 Chain, 24 Links)
29	PE-780072	Washer, Thrust
30	PE-780086	Bearing, Needle
31	PE-792077	Ball, Steel
32	PE-780109	Washer, Thrust
33	PE-792078	Screw, Set, 3/8-16 x 3/8
34	PE-792079	Spring
35	PE-792073	Screw, Hex Hd. Thread Forming, 1/4-20 x 1-1/4
36	PE-780108	Washer, Thrust
37	PE-780111	Bearing, Needle
38	PE-780113	Washer, Flat
39	PE-530105	Bearing, Needle
40	PE-788042	Seal, Oil
41	PE-788051	Ring, Square Cut
42	PE-792001	Ring, Square Cut
43	PE-780112	Bearing, Needle
44	PE-780114	Washer, Flat
45	PE-788052	Ring, Square Cut
46	PE-788053	Ring, Square Cut
47	PE-772077A	Cover, Transaxle
48	PE-784290	Rod and Fork Ass'y., Shift
49	PE-776140	Shaft, Input
50	PE-776184	Shaft, Brake
51	PE-790007	Plate, Brake Pad
52	PE-790006	Pad, Brake
53	PE-786026	Pin, Dowel
54	PE-792075	Lock Nut, 5/16-24
55	PE-792076	Washer, Flat
56	PE-790004	Lever, Brake
57	PE-792073	Screw, Hex Hd. Thread Forming, 1/4-20 x 1-1/4
57A	PE-792085	Screw, Hex Hd. Thread Forming, 1/4-20 x 2-1/4
58	PE-790005	Holder, Brake Pad
59	PE-778053A	Gear Ass'y., Differential (Incl. 2 of No. 60)
60	PE-780064	Bushing
61	PE-778067	Gear, Bevel
62	PE-778068	Pinion, Bevel
63	PE-786034	Pin, Drive
64	PE-780065	Washer, Thrust
65	PE-792018	Ring, Retaining
66	PE-792040	Pin, Roll
67	PE-780001	Washer, Thrust
68	PE-774420	Axle (14-7/8" Long)
69	PE-774419	Axle (13-3/4" Long)
70	PE-792035	Ring, Retaining
71	PE-786084	Spacer
72	PE-792074	Plug
73	PE-786066	Spacer

131-498A



Color Code Chart

Black	
Red	
Blue	
White	
Green	
Yellow	
Orange	

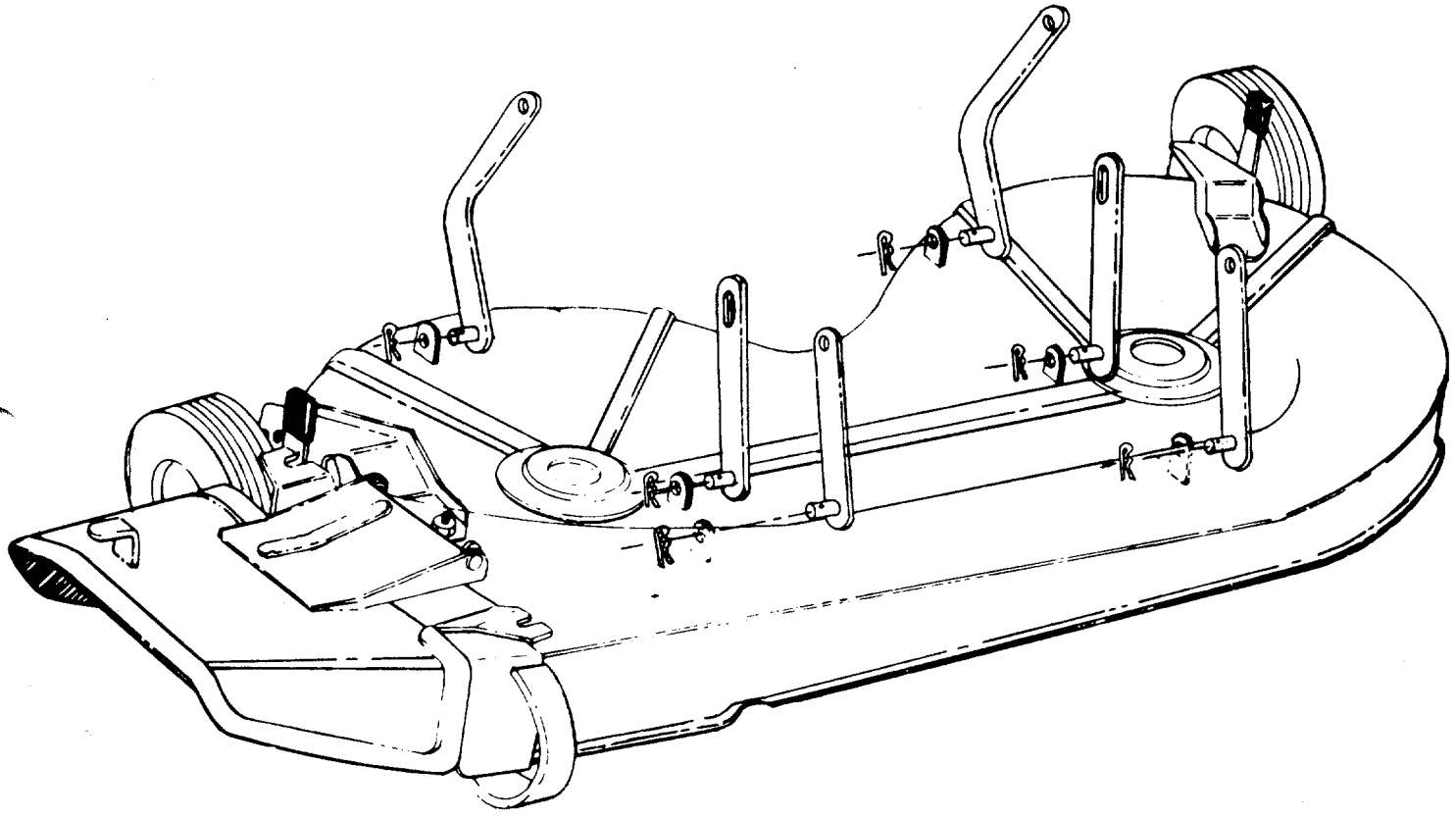
ELECTRICAL SYSTEM FOR MODEL 131-498A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-0221		Cable	
2	725-0453		12 V-Battery	
3	725-0122		Cable	
4	725-0530		Solenoid	
5	725-0268		Safety Switch	
6	725-0635		Indicator Light	
7	725-0119		Ammeter	
8	725-0634		Head Lamp Switch	
9	725-0267		Ignition Switch	
10	725-0201		Ignition Key	
11	725-0269		Safety Switch	
12	725-0738		Wire Harness	N
13	725-0222		Head Lamp	
14	725-0429		Indicator Harness	

DECK LINKAGE

NOTE

Refer to illustration below for proper deck link hook up. If the deck is removed for any reason use the illustration below for correct assembly.



PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and servic should be handled by your nearest authorized engine service fi Check the yellow pages of your telephone directory under listing **Engines—Gasoline,** Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	**BIRMINGHAM**	
Auto Electric & Carburetor Co.	2625 4th Ave. S.	35233
ARKANSAS	**FORT SMITH**	
Mity Mite Motors, Inc.	4515 S. 16th St.	72901
	NORTH LITTLE ROCK	
Sutton's Lawn Mower Shop	Rt. 4, Box 368	72117
CALIFORNIA	**PORTERVILLE**	
Billious	75 North D Street	93257
	SAN FRANCISCO	
J.W. Jewett Co.	981 Folsom St.	94107
COLORADO	**DENVER**	
Spitzer Industrial Products Co.	Box 59, 43 W. 9th Ave.	80201
FLORIDA	**JACKSONVILLE**	
Radco Distributors	4909 Victor St. Box 5459	32207
	OPA LOCKA	
Small Eng. Dist.	2351 N.W. 147th St.	33054
GEORGIA	**EAST POINT**	
East Point Cycle & Key	2834 Church St.	30344
ILLINOIS	**LYONS**	
Keen Edge Co.	8615 Ogden Ave.	60534
INDIANA	**ELKHART**	
Parts & Sales Inc.	2101 Industrial Pkwy.	46514
IOWA	**DUBUQUE**	
Power Lawn & Garden Equip.	2551 J.F. Kennedy	52001
LOUISIANA	**NEW ORLEANS**	
Suhren Engine Co.	8330 Earhart Blvd.	70118
MARYLAND	**TAKOMA PARK**	
Center Supply Co.	6867 New Hampshire Ave.	20012
MASSACHUSETTS	**SPRINGFIELD**	
Morton B. Collins Co.	300 Birnie Ave.	01107
MICHIGAN	**LANSING**	
Lorenz Service Co.	2500 S. Pennsylvania	48910
	MOUNT CLEMENS	
Power Equipment Dist.	36463 South Gratiot	48043
MINNESOTA	**HOPKINS**	
Hance Distributing Inc.	420 Excelsior Ave. W.	55343
MISSISSIPPI	**BILOXI**	
Biloxi Sales & Service, Inc.	506 Caillavet St.	39533
MISSOURI	**KANSAS CITY**	
Automotive Equip. Service	3117 Holmes St.	64109
	ST. JOSEPH	
Ross-Frazier Supply Co.	8th and Monterey	64503
	ST. LOUIS	
Henzler, Inc.	2015 Lemay Ferry Road	63125
NEW JERSEY	**BELLMAWR**	
Lawnmower Parts Inc.	717 Creek Rd.	08030
NEW YORK	**CARTHAGE**	
Gamble Dist., Inc.	West End Ave.	13619
NORTH CAROLINA	**GOLDSBORO**	
Smith Hardware Co.	515 N. George St.	27530
	GREENSBORO	
Dixie Sales Company	335 N. Green	27402
OHIO	**CARROLL**	
Stebe's Mid-State Mower Supply	Box 366, 71 High St.	43112
	CLEVELAND	
Bleckrie, Inc.	7900 Lorain Ave.	44102
	WADSWORTH	
National Central	687 Seville Rd.	44281
	YOUNGSTOWN	
Burton Supply Co.	1301 Logan Ave. Box 929	44501
OKLAHOMA	**MUSKOGEE**	
Victory Motors, Inc.	605 S. Cherokee	74401
	OKLAHOMA CITY	
Forest Sales Inc.	6415 N. Olie	73116
OREGON	**PORTLAND**	
Kenton Supply Co.	8216 N. Denver Ave.	97217
PENNSYLVANIA	**CHESTER**	
Stull Equipment Corp.	742 W. Front St.	19013
	HARRISBURG	
EECO Inc.	4021 N. 6th St.	17110
	PHILADELPHIA	
Thompson Rubber Co.	5222-24 N. Fifth St.	19120
	PITTSBURGH	
Bluemont Co.	11125 Frankstown Rd.	15235
	PUNXSUTAWNEY	
Frank Roberts & Sons	R.D. 2	157
TENNESSEE	**KNOXVILLE**	
Master Repair Service	2000 Western Ave.	3792
	MEMPHIS	
American Sales & Service, Inc.	3035-43 Bellbrook	38116
TEXAS	**DALLAS**	
Marr Brothers, Inc.	423 E. Jefferson	75203
	FORT WORTH	
Woodson Sales Corp.	1702 N. Sylvania	76111
	HOUSTON	
Bullard Supply Co.	2409 Commerce St.	77003
	SAN ANTONIO	
Catto & Putty, Inc.	414 Live Oak	78298
UTAH	**SALT LAKE CITY**	
A-1 Engine & Mower Co.	437 E. 9th St.	84111
VERMONT	**BURLINGTON**	
Vermont Hdwe. Co. Inc.	180 Flynn Ave.	05401
VIRGINIA	**RICHMOND**	
RBI Corp.	963 Myers St.	23260
WASHINGTON	**SEATTLE**	
Bailey's Inc.	1414 14th Ave.	98102
WEST VIRGINIA	**CHARLESTON**	
Young's, Inc.	233 Virginia St., E.	25301
WISCONSIN	**MARSHFIELD**	
Power Pac	301 E. 29th St.	54449

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number** of unit involved.
2. **Date** unit was purchased or first put into service.
3. **Date of failure.**
4. **Nature of failure.**